

Question: The complex conjugate of the complex number $z = a + ib$ is _____
Answer: $a - ib$

Question: The general polynomial in x over R of degree 2 is called ____
polynomial
Answer: quadratic

Question: The complex number $z = x + iy$ is said to be purely imaginary if y is _____
Answer: zero

Answer: 0

Question: If $z = 3 + 4i$, then $|z|$ is ____
Answer: 5

Question: If $z = 5 - 12i$, then $|z|$ is ____
Answer: 13

Question: If $z = -3 - 4i$, then $|z|$ is ____
Answer: 5

Question: If $z = -5 - 12i$, then $|z|$ is ____
Answer: 13

Question: The principle that if $P(n)$ be a statement about a positive integer n , such that $P(1)$ is true, and if $P(m)$ is true for some m in N , then $P(m + 1)$ is true, and $P(n)$ is true for every n in Z is called _____
Answer: induction

Question: The sum of $(-1 - 3i)$ and $(9 - 6i)$ is _____
Answer: $(8 - 9i)$

Answer: $8 - 9i$

Question: The sum of $(-2 - 5i)$ and $(9 + 6i)$ is ____
Answer: $(7 + i)$

Answer: $7 + i$

Question: The sum of $(-2 - 7i)$ and $(-9 + 6i)$ is ____
Answer: $-11 - i$

Answer: $(-11 - i)$

Question: The sum of $-3i$ and $(5 - 6i)$ is ____
Answer: $(5 - 9i)$

Answer: $5 - 9i$

Question: <img
src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAdMAAAAvCAIAAA3u7csAAAgAELEQ
VR4nO2dZ0BU19aG+W5ucm8SEzWxxY6AopSh9w5Shiq9C9IUxUKzUEUEARUQGBSwF1BEkN5hQHqv0uvQ6
9CHKEv7MQOCgNFEk5tknj9wZs7sdvZ+91pr73MODVAYbjpHhTdAP9A8D1hNtaxrXMAgMn2Yd0pGxQTg
tzFYR9R+2eXjAoVKn9PaMh/Jpti7U+cKBgg/rml+USIKyNDw2NTv7vQxIKHzrrusUQAUn06i+/"

FSzY3PWzPXvRFEz5HKf+KEHBTQ/1DM/i/Vn+gQuUvA1l5SfkPLh1xiSJ9gQyw/S1NTc3dfR0f/
lMCdmhgYGRq7VKNeMoyC2rcGvu0ZGcxbU1NLe2jU/jFjwZLb2tLGpbMkqAr9SyS0y+29F7YFe/
U7k8v8x8Ibqy9uamltXtq/pN/
Spib60sZnJ5fU1i7M70R3yPCaj6xaT+U5WRXa1NzS+f47D9dzadGelpbmpsoNLd1dm06u3qHxv/
p7bKU+fG0lqbm1u5J3JfQpP8JaAAASL300oJGd0o+e+rjnewXDVgZGekPc lowYGc/
8dd9LhLsnFqBM2ueMHZLV1zJLAz78UmSZlqSAlUEGRn30WnYPRufX7iuIxWmMjxeOV1dufe06lxvxNSH
uFtm9X9ief9ASH0jBXetBVkY6Xax20a9mfveUduZemXvt/
wPa8fX0qE3L0iSTvLZ209o2g+Bn6i0vCLNxbh/74FjV+Nm8H/
b4fTrEPquHWHesXeAkZGRkZHxIBMz7dYfv/nPt4q0zz5TW//
lIeHGix+eF0Uw0u9m0h2UNfc3dTxpAICISdTg5w7Kn/
q8SePGCp20KIdm9E9Pd19S4FK7HP+JA27QV1de8dSjDwg2AY/
Hf4JHTGxN8zFTs62YmJ6sfidKJHC7aGjhq5FbpnI6zs+ePbjiltI9V3BHQfpczdT/
7DWfyw06aw4Z0DM93RzjwMahltN/aUXtyQ0QPqga1bimI0IIEfHze0LnUUh89XMHUw03xunpwVw/
Xmap5w2TH/Oz6aGu2uqqpu6h/
9nL8BsgdcabKlkmNGOnp6enp2dnxtpdDv9Ms08ivmn+tzc2aX6ot6N3bG0T5c+HODqA6fuoEuIKw86Ym
93omp7uTLjMgVBK6p4HACBMD7Y29098un/3gZwmh7t6h/
AAc9iBrv4Rwq9eAMJMb3fH0CR+xRf4sRHSjH4EQBzt/
8hqAg0A9Kd4cLJKv+76r040cfLeSbmTV5JwAADw+oK6yNHgFbM6awpscGR6ZU2+CLgx9ElxyfuFkwAA0
9XmgsL2UW8Xv4x2UGCWpNs74NKbAZjJuX5AU0VRycgfU7BPZaA8VFdcK6uHBADQGiPLKnN3hfVKmsM0j
oytHU7445jqjDkmgnz1lggAMPxGm1PUM+swwjj4kVvGfL/QHTByfbqmZf4XZKLk6b2sxsUe3/
Dc6seNG43ulf+uR0dbzynSq/jk/
07SfTLGvY6Jat7M+NXzRmof6YuqpXWSAAC6EhXZpFDlwAAEzV2ZjqB0X2fsUxvi+05VM70AJTfNefSc
xn+VR3qRyvy77N+2fnex/
ihHBsrj5I+ASdy1aMi2v7ZH5M7DQBPbBA7D+St8S2HGmtLSgoKKvWlIYYnd9UUFBUlV8+SSyaGvsa
ygoKCpb2QCu2w66su9zsEkHF5PSw6i7Q+zqbiuGHCz8betvdMwK4tFnBtrqCitrq0bWrJ+NjPYVLRQUN
nSnjQ2TyQCAAw1N7d0DJNtoqGut10jM/PYnqKikrf9K+x30nyUozRC0amXfDheZSZAb3x7McAyH+
+iuJ7jZAslqkwikoik326EEDorigsKimo7lmg3cbyutKCgoLC8eUnvIc02lxcUFBV3DE/
NTliach4MU1ZcwlHfPokHAGJ7XWl5Xe+7xp0fdNdCHLa0IF8aQk0UFB0TZ9bAeyWYq3pm6xPctppx0dJ
ZX1pZ3YIZXHLB5lorCgoKi9qHJ6fJZsXcSGNN8yjZ05sZaGztXBHxndULJZUtU8s7KHfyoKq0pLymZXQ
0AKCnqbysqutdVYL0hFgK80r7kyddUL+0BgfDuRenV96EXQnSfErhrX/
QrPyrECb7q0pKyrtaxuYAADCN5eVLq7lwVkdttwSLF5Q3jK0y0psLC1gHKxSL05qiwrNt5LPRTw3ArwJy
V2y1/7aMG/J/EiMdrAVWftF85Cz/qo88hfvIh2VwjtcblsTC6Jq+iD5+F+uc2LPKnegDKQk0Q2o6/
rrzjeUunWdevK+8w7k+gjK6FbMAMHpZj0/D/
60mQBoASHXX2E+rV7bQS7A9eRdlxVhZmTfVkwR06iAAA0DaciL0JBhYwVl37GE+E1pIdsRnhoucNhlYw
VmVra2971UuSXyYQPCQu4nf9MLxHR0GdmW3FRPwBfZw2Wupq7TSXG/
eaaE9677e7JU9TP6E0DMS46nLzMp62FDVwj2t5BjvXXhelTgkLrypQeghdxS9VEN8pujx+fceTa//
OPXoeQ8u7M74zXeHq5jNR7ZTjktDh9nxv8aBq8YQ3/sbbf1bJ/
QXLSoSeysc6z0ysLPu28x3P6cYCA0DH3tx3F0diZWU9sI5V4VEwhgAAJFJ/
xWNdfLZWHjbvi15RKV3k3/
dkB4kx7v7pkGJ6N667JsZiHmHLbp03WMOmNJLjt9jPEFpDywy6FMwzZfuNgtH3G7DyqbUXajXlJaX7me
7e+A0zztW+hUltuDbiqDALKyer6kWPF4kY4njXfUf1jTQcj1sm5kY7w8/L7WQTCU/
PuyjDsmMXm1dq59IpabwiXJmLdtMugSd1c/
2tWTaaik0bZV93UhyuuZoXIVu3X8laMfS7XkttW3/+dfuvtODMUNFdWwSD5I3E4u4xHABM9DbmotE5ua
W9UwAA00xAV29Hc2kR0re0B4tbLY3phoo3aDQ6N798cBYAYLirDdM30l6dg0a/
qWrqA4DhtrqmxamRMN3W2Ny/
iinJYaz0qQIH7aY9whEN832tGWfVWbb+hIzHzC05ZaY909xcgXURfPnThR/
ymqbDz4p9s1U+pXWlc0rCNBSj0eicNwUdIzgAmBzo60ge6W0uRqNziipbFrv2YFt5DhpdUZ5pqbhfxRu
9ajb48fa8HDQanVNa240HANxYZxtmsL+zLB+dm1eMmSAAcBq5umZwmhLUMrvtrW9eVrElzDZV5qHR6Nz
8soFpAICR7rbuvpG02lw00reysWchLkTsqCtAo9F1LV2Yzrb+MRZA2DVjYfUb6eSvxZFvc9HonDfLfcu
Xz7H5dzgZ9gWwUq7CXM19gS1bPbIHAQAIm11tLeRoA260syAXjUbnVretvRQzP1qSn4NG51a1v7sGvU0
l5FZtH5oFgIYXdmxKp3sAysPMOHSdKco71Zf/
Bo1G59ZjFmNx50rk10e9kBPcbx25THmJs6PoQFMmbvHQRBrSPpaaiYS2T0xDKRqd86YBs+it4d5WFKDR
6PzqzsXQGQ0A/p6ZxB5u03J6JfYpP6HAME9cAMLtoXw/HDBrB5jFREnRc190wwAA0LD/v//
aczM9HYCQdE3TN7kNAGIDDfS8EhZLQ+iPE16/
TepUQFZmRkZGRnZurDGCTvrUsxVdbE2bFwCmSk0F0dUSEih9oCPxqoNn4CTAW0Et+Z0XJ0cGAqzltN7/
jZD+vRmYCjMX+ulbmoPSBpfvVuE7o3iYGa6kLev1FU90/
vwVs8vTpMyMjIyMzJTWkywbdL3P6lk8oTj0xI7/43zWtmawmzjRV/
wmYyW5FU3TSyKRUCG0oQSVb8Y4EBt0D25hM7xLAGiPvXTwGpQDwAME0khaNbJJAZhgNiHsLWNbg0Aoc
s2Ylei28gpYgdmMZl+mgZn0vIyrtifS0THGYly3sqZiL+e57aHN2w6HJaalZGRkZGZ9dzn2N7NErHd75
tNH7B5AbB+BodVXRiOwjs/EGp/5EUjAix7nldxf92BKw1l3bftGxr+lxhcb36I8M4N3+/
YqXjq4dvWngg7QTPnR+El9Z2Ynh0uf2KgZRYTX+h74XhkdsZZGYRDFNm9IWb56mz4ludGTHpmRkZGZmZ
cqN3+9Zx3K35lfptqzDn3fn9txv2sSig0P1TAzUX9fgZEAhWBmadS8+HcdCbdVMJyX6YmRfBqRZRMbQ
iAUJ3KkqCmWGBQDBspz3hNZMHhLvGh6UULU7pcCAQ9HTMGuj+ySRHKS5ZR3IUkdgeI8UjcbtszcDGxPT
SU0kDfR2T2PyCG+cto9Dpp6URzjhV+s9oQ+RZdaPutg/X7B2Duf50NJvN/N+s/

Gq0LsLAigmbQDDT7VCwDBsjknJvGAoJ6dmYH0YgWH7Zyns7tw8ARhuSzWQZmREIBVEZdvZ9uv65K5Miz
QxH0GrQMIMQCBZ6RmRM+wSMJmgyi5qe0X5EGMG4e6uqfeQYtSaYdZ/
VI4oVku93FKHq1rtKkQm9waHSfAwIBOLAjr0m3ukzQHp8XFZSzuy0PjcCwUDLqJLQNgEAvbkhSP59CAR
CRV1TjBfh+goDML0ovFP9hXY6fPsRCBY6ZsNrcROLfYmEj3FUWL9B7E4Spw9H+p2g/
Vk4qnUaAGCSwFuk2Yw5F2b679qp0R1AIBCMrIePpravdsLwY29um+2gZUYgGGgFrYr6JgFgvCHdRJYFg
UCw00+QnQsYxUnrLP1S5R0hAsWmXHhobqFDIBAMnOqXW8bxS6rDpip1mIGVweH1Mtd9rjfvp0C273/
YwK58omIUF2wpxaeSaSiHQDDt41eyr8XiAfCdaV7sLIwIBGIHq8qzUor9SQ0A9dbk2MJ7npzecGGqkJh
KchcRANqTfQy0LzQCIC1ViV3cjpIhts6Ef+NG0f85mA7S4DFxT5gHwM28jY97d99B7YMTP3//
IyMHFwcHBwcHJ9PeDV99+7PNq46VTZT180Kt/
NUXdytDzXm1nfowDJrIEH0k90n6WQAYT4rPHxsHgILrsswC6v7jAIDrspfdrvE7wYjcJYLZAgfmAun/
+u7SII356jN9vpuXg4uTg40Dg5Nq1keYrNp28vnehjKZY5/3f7vBdYTy+aKG0F0ZjpVIWfq0L9r2QCq
6bcqj6diHBwBIu2FmduHpDEx5yh1SsH1J7m042oeMm36U88gjQZULn+u15F4AaGsqs15NwMluBuIHXV
/dC8wrw9HrLnHzsIYVIwDA0JohTn/hp/3HKLUG41l07c0Pypf6VtportGOAQ8WKLJAADYkqMy/
FdSfLQDV3aaaj8XtdScAdLYVo707AKAP7YP4jjwsdhwA0iPP/
0eHXy4xbQCQ6609jtwkbvkVK7LzSLD90on7AWktQ9CTLIHY5Zg4AAAw1+kkv/PH7fu50Dk50Dg40Nh/
+YHma6GT9R8RuJ0uCRPj1E0bB4CZJyf5WNUv9gBAT7zc1n2XEToHy0NYvvve+LX7qr/
FDeToIPid4joAYLrIV+SQXPbU+CNDvnVbeNL7AKDTLueAqkvSQNM9bkbhZ7XzANDw3FpQ3rz26g9sLCoM
shTQdH94LSG8dge54UcRuL5TFBsZGeHqKNHzsGjVpuskasZVewK5xhZFNwnU6yfBpe2YDAAXnqh9iu13
fXxhs/uN/NwUUTQMq7x0V5FTwGSNNeMrveJ1+dx6gK+Xazh+/
1g0qXJEPse7hWxbuE9UAABBXuLDW4v7wXDHy6/8IWIxNAYww+HH8zPeifSDqogynps84ABCx3ke59a9n
rtKqw/mG7Lz2L5sBAFeJEj8omTox/
txCdN1G9qRuAOi5KMiItI+dm241Zd+oeYMPAN74Hv323zQOSUMU5b2ZDTB3z4xjv+rFfgBi68vDC07rG
V1ku5c4UWcLsmnj7o0Uvs30uuU7mu/
kHLrJ9tpYsY40n2fmwFS6yyEe3dIZABgNvWdPFFG5sqj9qT6czIdCS/
EAPef5mHjNH83gsV6KAQouKQAA2Dc6LCx+JWNtCU7s75TXZRKG7Zn1Xibe+A4AwFxS4NC4mjKJbTRh/
4lcnbxAOx+++9ox4X3XvS/TU1BGuxgLANP+anvXs6kwjQLgqo0QD0dedcxjCxU0/
Wz+oB4Acnz12Q9bvZ0gAAANwLiXJscWgYvkgVgaYiyAPNeybDL5wF2Rh8fy2cIh4YWV7PYf1crxkH9T9
cf/bnB6gm4bXeo1EB4e46djP/Z24b0yQN0dm/c9b134erwLnRiBgxsbg/vSyVLZy00+
+SC7vGmJ5TZx24T/yPmoRU9ys0wB93c0EraPSxsXDY1RT1kmAXX/
MQCAQTfNA+IOrWEAOm6Ui11nqfJ0lejs2Kdkuri5Yvaq6LchjjgvEV5oeu20/9vtN/N/
56raZNhxASWbiGVK0J2ryMh6/
NHizNRpx0TLjrxwATPBatvX0Us+ysgfwBvYUhuV14xNX1QvLqSEAVNw2Ztgnlj0AAICTf8L3359sXzVTT
pypN6D7l6TDq4VwwndUo8mNGXXL9ojxidDnsbGxsbeJKW2j767oWFGgBLdMfNfiB+PBunu/3y14L/
XN0IIQ9GR7sy4o70iyKz2XRFI3AED5XcvdCJOaZQpFemwnISR3JCApbwKg+/
wLQ9tYnjboAcB8X6rchh+PvL0EQVv2rzzhMAj5mxWyyKFSMQzd1HIBQbMbD55NKDjrNPj0nJWJ1vzEzgI
dbMRWz+q6HkdrIC6evd5BgpDk36bmXJctbWDXmodlhoeOPAQCAG0ukI2L1ZHqm1UyI/XR4IwA+
+Kiwlkvcbxf0SQ+sxYWRqkEpBVMAHVH2B7ezRTQvNPx4kbw1bcjD6NgLJKYVDA3utJNy/
bQ3bdgeVLSK0hPGCq6cuJDbB7j+yuSkh3r8D0ejKnP8zQ9J0vQTAQCan17gVHZraEqU4xAMKiB7xJiLK
ge0eK2M8+JS/
S943i8FmKrISQ62UXBStqtpy1M8xH8dPUwuto7oYe+isc7Eywe3YIpIHXFkH0JPq5bpWHHG15d0HWth
QBjrXLJUTELESyo0q7wU7L8x+6ST0h2MxA79aAxD8XFpULZCT8aK8q00eZVH115Nf3zYCpXjpn0ZXi9
Lyw0SXoeoc86qeaI4W/23g6vI6S33yL6YF/Cdss0MpjJXqygt7Z/
SNJroysGuH1qxnLFPBRdvKKZvfJybbF+5s4P06Zfnv9LH1mN+AHa1KSnhgJM5x5XNcUe5LDeUF59a7i8
VM3dXiFrWPJqQwk0XFLHIsJvy7Ir0apznihhiC99Yv3LcjedA8BGe3CcQAY99DmVXSKISdwVudMLyirI
vI8PbdfC/
nUuUJ1fs7LCRgAoAGY8tPh2cJ0hiyMWZ7yv8hYtS4Nnc3XHRNhYdkbufhBnr8e7Q7u2D6AqXIbGfavaW
i4TG7UDS7EEuY77MRZWHRuU3odadTnCPPuQ3aLftHsQ5wBkpeXl5eXl/
sa7bbdjOzka32Xe0ML0kgarzjGf8g0d0kw4/
Hnbma7vqX5N6Pss1rytDPiIb0ovP2XNfaLXowmAgDUMixX3pnmX8wbGM9HURZ2SE0xwv/
dqnM1e6ncNcc5M35LG7S2v/lxDHlo7+eyCV9myjSFH9y3//
izxX0UM0Fa+w9InMUATNW8kD+4LYaGxuBGZu/
iWuLcW3vBTSz63g1jAKTJwKP8+yTcyMZVW7zDLz8KPa2LRKAGi71p/73XLX6xaadjvA0pLctC/
8vuvWxcvLy8vLxici+q30V6CG0MmUQsapbMcti6V0eYttPQ0GhfS8ZMEgG09NrUXmHEP3p0MXj0wAAy
sJ0vK+8pL5rCnv3y1sX9QEAPvKC3C+sp8iKNFzst/
cD4no2ZaacaXvA9tUvJ0MqPqYdJwpDRDL0UrAAXdFyPFxhC7G/ohBzfvNrLYm+fPKGxYNr/
nywtSgh+rGh8I5D7Czbth941ND/
xEJaz4kcEMPHOBzhMb1NAIiyOyJz7iVurtLERMQ5rv1DBSL1eMjtOqBoX9IPAPMrtjLb2c++w/
9rS5IXpwl5F2KuLJt8woeFK45TnzP/
wldi1k1Pg0AMwP1KfHRTsqH6FjZ9mza4Jj0Fu1nKqd9nTz5ND62YV0+lJccKiSonUZpAwYImaipR/
oQ01mI2PLcpCfXzHk00rEw7uTQcKhpWPII/moahYAYLRAW4TfIXkYsEXq/
JKBFbiBBGd0kv0rCS8AwHB7ScLrcG0xnQfZWX/
Zti+stve5LZz2+whyTomumKIWqKyHztxI20ZyUcYKtYX320VSog1aQUVQ/4DxwF4r3+hXUVFRr6IvG/
DuUb88QQIA6E5z27m07245RZRHK/0Z/
r3bIaqJkvdyiZ6MgHtGP0wwWyH200wRDXgak1zYsNpk0XrLiFvVMfy9d2J2qCElPua8Kgs9C4J28w+2r

1qalYrvUS8YbzaX2iVsfvPVq6ioqFePvcz38i leu3hC5MhFSnWizY7yPE4Rre/
l15N2VUBaq2AUAMbcDYW0b5ED7oNXdQ8p0IRHXDHYLqh1n5xoJEqSjd70YTUA0ACQXp5D7lqvVUwEACg
M1P6GXgGNWVlsqRl lxDZavfuL lay4a8KwSzBhkDA7DzDV7mMhtJnm/
wTPvaD43INocbatXE6J5KP5pmi+HT/qr7FvJu3eeb/
cVczMyfonEocEwsOWA4Kk2fL5AMhGGbHs+0ErhHnTNACMf6TyDsacp9nJdusNJaMSP/
31dELRjct6fk2E7f71ojFrLS0AEEbbkmPCVxKdVbZkW8eonxFis5jzsq0GNSGb1m83DCpd0CbeP8bCJG
XXDsQ5P0CbYo/LsHxDs9k60o58fXG1D1i3HbSNqAcAmKk3E9sjcSWF/MtcL0WaAyo53eSRmf/
UnHuDgEnNqmZ6U9RF/7t9q4zFuTAzEQmLSMV6kgA3gwdSW7KVAtt/
aX6yfFhNAsB8tPISexIka0n1ya1N6nVW2c9q9ZjchO33TWj2CD+vIYs+Kc0Z+Q0zQnb3R20ZISTv6gRA
w2N+Tra75ZRfFYVaUJQXaVD0/
oYOCr09+cfE6Rg5BTWtwoam6k5LCYewdz62kNZxiCMX0dZRNf7VeQyg/
YWNpKJ1XvZTBTnt lK4PrW0TumNF9zIYBRYCABaxl5To2c8umV+Hc8xtfKs+Znl2uue6/v7/
sOgX9FCuDWES0zn6LiXidNc1fc5dh3glVB0apodu6Uuff16W7Wcqo+lNnn2bn56gkzz68oG/
kIB60iXamfvstKyle+oKwZx/
G35hPy2tgLBkQHJTS5KrvIpdeWuuAbfEg4oZAIDRIg2hneYPWwEmvNUETt7NTHDXl7N/
tKrWzVUXH5ei388hqHoIUH+myVZaMKioPcJKTt00cu9rspvMIS2nF9dteeRtmsgfzVadkGK9+KLrnfI2
PGPcs40VX1hQUFBQUFAKqWxx041c+WI/
NRoGZGo7+QgfeVpwPbde+eLk0laiJ8PvmtgFAKTeXfstcSFe1nW72S7Ht7zfX0ndF5RpxZ2X3z0w23PD
iHfHQW4xJfVayeHbxiLn7lc3vq+8Tcelmfaw8JDLJiIhq3Ix+IGjAa+iPaU6002lKuwa3vxehu8pr5Zf
FgAADF7VZVJ0fBbtZbZh10FBIUFBQUFBIXEFr0Pi/uAvLch75b+gd3IbCwAQFeG5y806/
XCFmRiqqtzst9X5eD6PRqlC2ZTsrMKC/vZNpgtSysangWA2Qc6/
DuYtUrIJ4wXqvHTagcWU052VaJntqzGrjre5hLuWPuk96z8oj3BTvjQv0adDBKaykuq64YBoPml877vd
14vmAKY/EjLHUhy2cEk/LyevE2j6SQHo8L56PdmY3z/
Yzv26pwuHemba0oyVRVZibLNrc53cd75JHe1r2k0+lVRzNkpa6BvLLdHd8ya/
ouLHeNuEsyyx6PwPJG85PKCQAAJacYNnMY+ZMtpPLQ40yCRpUzAAD4zmRFBMIzmzLC8v00NwkaV40CA0
CHEmR+OXjuyepTG
q463Pb67faVgUd82wVZ4XMP6hY/
IOB60Ilkk7LNmmkbi47PJMAg+m0Vt+01Eyu7IlkCSKNlR3mZzj6n+BZNz05tYVPIIIc1Jov0GA7o+awS
QFwVis07BoDNVGfnvommNF7mTR0+M9+aZL8PKG/
tQ3MGPKNK5xliVefnuFPZvVx5JRjUnAYAC00xuvJIYxPmBmfuf1g2W6MusXKOZA0DABBHivS5mWyiWt5
9TeryVDe8nbdKT140vijYiIZmq11U/eJHba/
8HyxZcpwo8GVLEoykj07288hDNpGV6GXKa7lPwjA7NVKcTyGa4vi0+BhwaHtmvj/
GCN00iozyLpS9XBVhhoLKtpXvK+9ui0cNAJATbHFE18xMx/
hW0irrMQDQGH6SnkurlNyjRr01BRABJZ3LlVewSdsLJ+Imt+QJskkn/
Vly3NvORPZQlDewADpeiv0oJS/
oKa6vsbo0Q5b00mD9Tbx6JUMAAITRNmWdByzDit9lP1aiJ8PvkrB0X8H4LSPGr/
jPdL9nLJGGr+myHD5PCRoQxloL8sq6C8J4WHieUFod46R860TD5dEGg2vEqU5bpLhd5EIYjjhcV1zfGe
7AKmpBqc58zfHDLpbP299rGUzKFX5ZraIxeF95dZjkXSNivU9KmYYtXpq0yvL2IRyQlbf5hfVBBj7yAh
iu/43a7n/
RsGg9eRUdHfU88Lp7EgZ60u23fU1jcy8cqcc4KPNYBhQBwEvbk15x1QAwEmuzm10tiKwcpNZzQowKzhk
AMFr6GMnEfj1pSR9dxlp7G0ixLtoydndqm989XeHt81vnLqDGAwDmjRTrAbfMMQDWU2AV0Q3FAQBMe+s
dLhJLJdf0ko/7aGj1YnKTTSHsv3CGvgEAZHnrcQgbF74/
zkjZ3tp0QtYda3mAH00/2nfHVzTbVRyio6NfPQm8jgqrGoUcT/5/
bzz0sGoKAGAoTo1XJKRoBIid3obmLzrnASD+ghijlvcoAADhiZwk8NFAcg9vS3Dl5NYMzy7vmyYAQM82
08oAABbHSURBVGPkwdp9KoXk5QVTYUmdq11rFG0tvQ245ihFGeU7+c2tDZTuT5rrumFk9rR5FgDSXaXp
j7hjAabLA9i/Z3/WMQ8Ac2jP/bzS5MBgU/i5vRyWS4dmqrsat4JTPwkAYKgoSIhTDhVX2I0dAYD+HE/
GHskvMQCAi76oICRztznJ+J9KMo7QgLoShE9IGL/
HAAAQz56NV8srpyA3hk11TeCpTweg7deiIAwNsHpzb/vOV+0/
CTFcrbCwAwEqwvveUX+uMPa1ZPa4FE1yM8SpfJTTaYd0uAQ/
50QjG5mmQKQowldJ1rP7hMMN2VKEL7E6fuw0WjsrU82srcq27yXTrjGve20nGRR/
dUcejBzf9nm9Kcu1x594roFjXXnRZjMrtdBQCALVJl2ajsm/
d+fvNtJ8V3CDmT718Yd5Xcslflwtv2fP3lymv+sAEAZluTtPds3ixlkbWG21cbZvADq1oFDgCgNdx268
8bb78dfl7c5mXuvPy2Kv3wATqvDCwAjKR7021e75o2AjB9zVhYwzchoMtBgkn/
Rha5S07SB5UwbKC2WHu6PUj00ABMPDwpLq7mvMyrJ0cbUjCz7fnRmaxkHCuCjx7gN3+7YstUSaAZj9ix
+lkAgHxfLS4Z+4rsMP9iIeNAACzVY9Zt9Gcj05sXaq8um4zQEpzUuZTdsRHdd7cU0Mwsy8tS1Bi57yW
Pg4Au0qnHHS32MS8r1eDWT4CoroLoAAyV2KwRHm1GaXcE7qLH0uwCkc24wGA2HpfddDnSNkYkJV3oiRE
hF00ghLMmIwPPR6NhoKIdcQUAECvvzLntj3sbiH0LWzBqddSoYAgPD8yjFhUaQ/
Kth0Td3cM27BEpqMuarNF0AhEIWyM1Kx845bw81mXvLZXE5cqR7jzoo7WVQMPW5Gtw9S4pHNOWHSbBzn
bqCCHU8c0b5Sjiw150fJ7fzuZwbVxKr02rxQSYZvtoqcSCurL0m7gVj/
I60iYETZS8wYaLckodDUN8JFeplqKR9P3/
lkJ15ek6W3zjoM9w7P9PqfVL8X5T223rucRkAzPUVmrNv3ydyFIVCXbu/
etzjwQgACTAu2hJy0idQwQFGhzU8oqoBA0ZarMXZj/
kXAAAAMewK3PfBeGwvB1QPzwHAeG003B5mDUcUys9e58jJNMyaDvJs+X1LN9+WfbcHt8c6MNDR69n6Ri
dS4s4k6HM30CytYYoKRpLIq7tHLMNUX5PTsuto1hneTG5tr314Rvzf67eZHWs31BU6aXP+3zRE1Yf5lH

A4cchTlvf5Yiy561SEgK7bhLCw8y7BjALAbB9aj4n18Ekv103LukpHX9a+Vxpic35i/
JumVde1sG9usdPJxw4SAKD21UUBEWEHFCrQxUSC3yipc7Yf7U7Pp5K3xg1NI+XPRDj49R2CUKhg0yPZz
d9tuZxVfc+AX9E6ipzvS2uuzdI2GBIAQFWI+dZtHI8aPng3A6HfXZLH1SmRPOBLgvW+34SwP09T2rtkA
h8rPaerqmHlgFog7HEiZokoEGa6fJQZaWhoFG18QoKDUsgUKtCNaysNjeL1pQ0E0JNjKCUgaeyGQt12t
z66d+sPuncy0jy0BZBu5F7bcPfoj8wyxZNQ/+KikLjSdRTK/5LWrn//R/PGyv28k/
E3TGjZVQJRQDvXLysidm/jMsqqiFdn5LlTQt60myfL8oNeSB0AAL7LWwvvg7b3yBp9aqz6uQQXn/
b5WYjU7QsmCvX/
XQppeKxibDcyXBys8Rd4N902KYPT3phLyGgZIJCoS4aHt69Xehe2STApIsGq8zVFACoemHDIyzqiEKhr
pySEdeOW7iFfaI1Qwkfi/L5W6iASzoqFknty2VjtEBZgNk5uW8815+bj+/
cdRQq+KaunPAJv4yV8kLsyj2tzChucQ0F8pYREH0LqYepMnNZQVEDZxQq2NPuGN32H1R9c+sj7ekkTLs
BioN06JRSR0gWwx+te/igsj0Khbp+RETU80UNACS7G/DJG6NQKFcTqY3/+s/
56PdvCCN0xsnSMhl6hbe0DrtpIpDXyPZfv6P8VsTZKJgFD7Fw3bkDAqF0qMtrX/
2Nrn0gAATJWZSrK7JiwuF46GXzmrp6end+ZW86K70tVw3UJNAYmUN3NciGfhGhuaYr0NkEikhNhgMvm
crr1qooFEIh0iPrycMl+R8SS+ZuUyxFiMt7mGqklU5eKuHVLP8Fjh06vHVJFIhR0JDVMAUHD3iramtpa
GTkB0aUKIlaqGjpa6/
vWIlKdeVura2hphJ09lvttd2Vv8TF9ZAalqFnu82h21uK6LqkJGqJX7cn4TkzUe5oZ6enqW3rGLQw9bH
2ulpoxEIg3dn5EtUSLM1hbkhNgpIZHIs57JFAGabPB383hdR25iQkX0TW0t9RD04sUmlUf6qCggkaY0V
R+cJeY785/
Fpw+u0JO+spewmpmFyMXVxJJMFdXnHf3ghISiTx10Q4PQBoudlFX09bVNj4TLFeYYHdUTUdbS8XuVm7
iAz0tdR1tdW0ruXs/
Go+55+n+qIBy1JYzpq2l4fP6nf3Ykn5HXUkeqXMqe5W1aHy6t7mypeeq27lnWzLdHQKrfnZ75j1xVUAi
keqWr5txADBS/drHGqpl7Raoj/U/ooBEInVuJ2Y/u+WNSi0ue0AdGEm0zJDKIj1s/
CLJ+3GGM33ENN1/5TYpXFeYh/uTYorSN6eHaGtp3Iire/80Yi/
KWgG5gJrR5aUbl+fHytx1tPT0dFWVF89RUNPQ9owsfi+u0lr50lhZAYlUdA5NTH0ReOV+ak1iiFdAPFm
i+t/
cP+Pq1zwDANPRNy3kkUjjs7a+Pj6PEmtXi+hh7lgbIZFIJa2r6LJEpwt+ubV5YZe9csj03VTLLbftd3P
J12Yy+Jy20epDj81qSgpSU0QikZqBsVnPUT63EguLHl+/
FV5Mzrfqlde5m+HjAACTdy6pI5HIY9e9zFS03y0eBpiLu+Pmn0jZ3oN+4KSARCIvTMLLl/
kI1a99jygikcb2pStDP9NtKC/
XqOoxACH94a4oj0Qi5fVd7g2ucX88qTVFX1UeiZS3uJ5EHlnYuhhTZQUkUv4SKi79VZDLnYyukpe0vo9
HAdqzwhyCXk4QAQDgy8JVFJFIpLz93QU1wHUFnNdEIPFWLm43PXxeF6+02wae0pkqa1q96RpNv381IJK
c1MC+DrR1e1ZIBICztw7H1ZFIPJIVCrNQYPJTIqfvnlGSc4z/
Oz2a5JMg9uaYKwmFVfydnhdwF2CsIueOR9DHLbl9KV45qGn5vP4zS/A/wniFkYrs/Zrf6/
XNYUqfv8ygmBF19zLZ9VP7fvfd0X9HKE9G74q/
eUTHof0fKr3db+4cs3Lr+t1BXiqfwnxRxE1nr9yPjv1+7uyxjU88TouLGcTV/
NNn3LY3MZe0SqqY3f39D0bF1kcpcB5S0unh4eFhrCqt4/gCu4ZZ+g+Horz4sQqvsxavqn7D88v/
BuBj3c/YRdb/+olUPidzzRXp2Z1/
lvDC3FCJq5auzd106oRbFeVvoHc0svbzPCL4bQrKQFdLS0vL9Mq91e+ipLKovACE6uwIV1TGzJ82EP40
iJi0G1cDm6d//UwqVKHq+SzQLPL/005xwP2Mtn/
WCwOG34YHXQpf5akrVKHqofKloFl21F8aV9r+z1LewerXGTLdVIEtChUqfyA0v34KFSpUqFD5rFCVlwo
VKLT+aKjKS4UKFSp/NFTlpUKFCpu/
GqryUqFChcofDvV5qVChQuwPhq8VKHqofJH8yWvd67t5bM0zDQAjIbfcg3N+uj3slKhQoXK35ovqLx9
uTckFS2rJwGg+5TsIa2ggi+XfxUqVKj8hfiCytsZd4FXwbQdAABjp85n+qDqy+VFhQoVKn8hvpTyTrVn
nxDc9eNP2w6buzZh9xN5XXPu53XFhERK3AIy6U89n4gz1RdUkREBhnqdv/
CPctFT53FRUVExJrvJrcCALYu8VaQq70BjoiI9pPSEQBICjwjJiIiKq73qHAIAJqSUJfduf72+iIiYmq
XXg401l0xEHERLTzvj/6nPv0SChUq/
+t8KeWdx3aFX1JiYBcLiM8bnRv3UqHdzCkT+Cw8HGUrZCTypHYGcM1u2geFTbzCw80NZUWmveMBoCnak
U9QwPVBhJAWYH90k+rRrH1D/k2fyVh5BkeHlc3MF9035JTRMY3PPy+qxH/4RNl06Tqe5abv/
ne8Mqj8PCbovsZUMSUroaGh4fY8yGkH5au8aIuKlSoUPLT+YLRhp4UFyGV4x0AAP20MnR85rfnAAA6Tg
pznXnd1JnlQ0srmtQNADCQdpmNXTm1tTlQnUfdjfyawpFrCiyHz0d114Tz7WL0LSI/ObTRgme/
ggf5Fegt56TYz05mlz2y/WXP4fR+AAA/zUN7JW2HAAAwZ0V5zEPKvlztqFChQuU38wVtzn6PJ/
8sdoZA0ixV+M3DS0FACB0XVBLM/RPeuGkwKR9g/
JQ3NlyHumhyxERdtICnzMpT2cvvWvBpetSmRUmIqmw1kUCgPnqMAQTZ9hCuDjNQ0Po7M0MLJUI0qWXBA
DdzdyEJCzvKQCA000iL2ka9Jneq0aFChUqn5U/
Snk1BUzvlQIA4DvtVRh0PW0eOql8t2U3Gwc70zs7BzvTT3u4r9zy1RBnu55Deelm7TMbXkOHsvQQETmN
jC4AAELJnX2/rNvHxMX0zs70zrL/
509MtsHo4FOyyi4YIgDMoUyFRcxu4wAA3+koJ2EeXPTlakeFChUqv5k/
Snk1+E3CSgDIyntAz+vVfTs9Xj231Iz09PT09Ex0YcXb/qYebSH2m9nkN/
NCzdNzPAa0ZRMhIjLq6Z0kAJgrCGZjk77+ivybjJz8wtqekXyUmas8UzcBqMpLhQqVvwpfUnlf2fPJM7
ZfWfvKq8SgEZCWe8daRSOL8uInYrW7qXVKQ6mtGkd+QDEAAMY/
uojkPxbQmPdASFqNrlZe4TRdHomwioU3gQddvHI3IzfESkrBmaq8VKHq+QvxBZV3JmdfkFM7bZhIgh5b
NR7j0GIAAHynrfweOZ98XGe2Itu2cxENBAIB7avFxmnydno201WWvsygaopA6E1W3rHPJrJhr04er7hK
Wif5/awzjy25WNQvdRAIHk5kVXoGd3RL6YOT4nIOZOUNPCYgaIIiK+8laVFqnJcKFSr/
m3xB5SWNF+gf2rZbx0hNR/fVo8Kmdyk273kVeuTVDAa8JswD+SA9ExMTvZBx8tshAJgfb/

Answer :

Answer:

Question: The set of all numbers that are rational is ____

Answer: finite

Question: If we have a function $f(z)$ takes on different values as z increases by Δz then the point z_0 is called a _____ of the function

Answer: branch point

Question: If $f(z)$ is continuous in a closed and bounded region R , then $|f(z)|$ is _____ in the region

Answer: bounded

Question: If an analytic function is smooth, then it is ____

Answer: infinitely differentiable

Question: A function f is _____ if it is differentiable for all points in an open disk centred at z_0

Answer: holomorphic

Question: The real part of an analytic function is _____

Answer: harmonic

Question: $(-4 - 3i) - (-2 - 7i) =$ _____

Answer: $(-2 + 4i)$

Answer: $-2+4i$

Question: Let z_1, z_2 are complex numbers, then $|z_1 + z_2|$ _____

Answer: $6(1+i)$

Question: $(4 - 3i) + (-2 - 7i) =$ _____

Answer: $(2 - 10i)$

Answer: $2-10i$

Question: The _____ measures the distance between two complex numbers

Answer: absolute value

Answer: modulus

Question: $\operatorname{Re}(2i)$ _____

Answer: 2i

Question: $\operatorname{Im}(0)$ _____

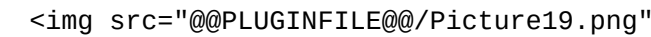
Answer: 0

Answer: zero

Question: $\operatorname{Re}(0)$ _____

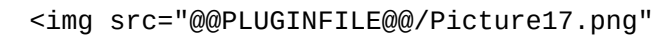
Answer:

Answer: infinity

Question: 


Answer:

Answer: 0.2

Question: 

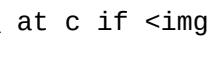
Answer: 2

Answer: two

Question: 

Answer:

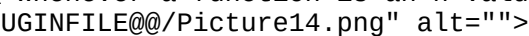
Answer: 0.2

Question: A function $f(z)$ is complex _____ at c if 

Answer: differentiable

Question: _____ is used to represent complex numbers geometrically

Answer: Argand diagram

Question: A branch point is said to be of order _____ whenever a function is an n -valued function in the neighbourhood 

Answer: $n - 1$

Question: Sets S and T are said to be _____ if every element of S is an element of T and every element of T is an element of S .

Answer: equal

Question: A line which connects two and only two branch points is called a _____

Answer: branch cut


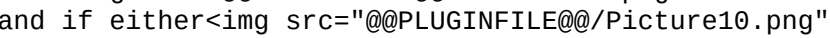
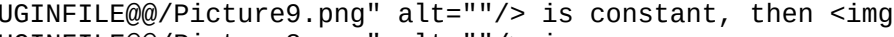
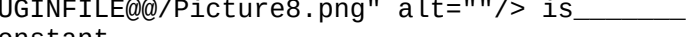
Answer: branch line

Question: Evaluate 


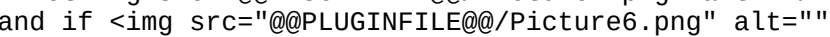
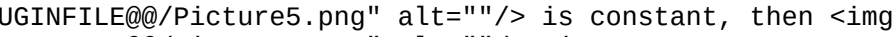
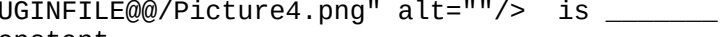
Answer: $i^3 - i^2 + 1 - i$

Question: If the derivative f' of a function f has a simple pole at a point a , then f has a _____ point at a .


Answer: logarithmic branch


Question: Let  be an analytic function and if either  or  is constant, then  is _____


Answer: constant


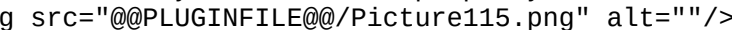
Question: Let  be an analytic function and if  is constant  is constant, then  is _____

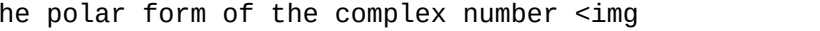
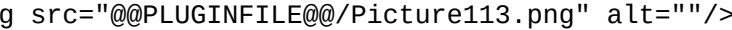
Answer: constant

Question:  alt=""/>
Answer: 3

Question:  alt=""/>
Answer: 4



Question:  alt=""/>
Answer: 1

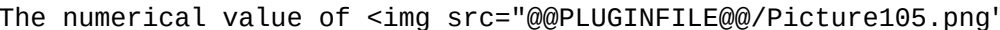
Question: For complex numbers  alt=""/>
obeys the associativity of addition property
Answer:  alt=""/>

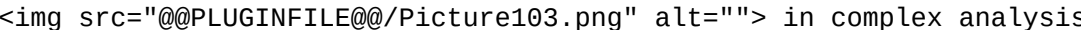
Question: The polar form of the complex number  alt=""/> is given by
Answer:  alt=""/>

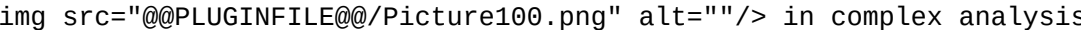

Question: The number x in the complex number $x - iy$ is the same as
Answer: $\operatorname{Re}(x + iy)$



Question: The conjugate of the conjugate of a complex number is
Answer: the complex number

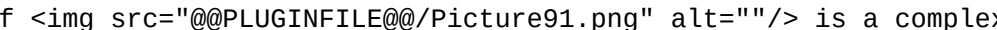
Question: The conjugate of  alt=""/> is
Answer:  alt=""/>

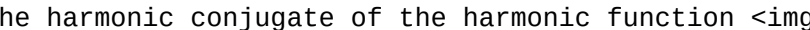

Question: The numerical value of  alt=""/> in complex analysis is
Answer: -1

Question:  alt=""/> in complex analysis is equal to.....
Answer: 1

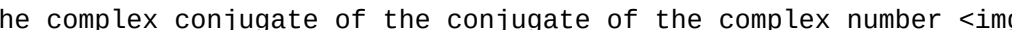
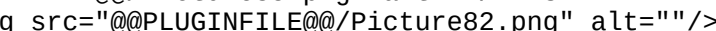
Question:  alt=""/> in complex analysis is equal to.....
Answer:  alt=""/>

Question: Two complex numbers  alt=""/> are equal if
Answer:  alt=""/>

Question: If  alt=""/> is a complex number, then z is said to be if $y = 0$
Answer: purely real

Question: The harmonic conjugate of the harmonic function  alt=""/> is given by
Answer:  alt=""/>

Question: In an Argand diagram, the purely imaginary numbers lie along the
Answer: y-axis



Question: The complex conjugate of the conjugate of the complex number  alt=""/> is
Answer:  alt=""/>

Question: One of the following is a complex number
Answer: None of the options

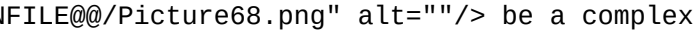
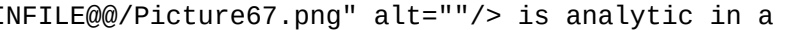
Question: If  alt=""/> =
Answer: 5

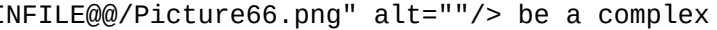

Question: $|z| = \dots$ if 
Answer: 4

Question: Find $|z|$ if 
Answer: 7

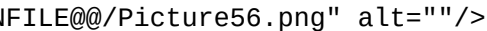

Question: The complex number  has its polar form given by
Answer: 

Question: One of the following statements is not correct if $f(z) = u + v$ is an analytic function
Answer: a non-constant analytic function can take only real or only pure imaginary values

Question: Let  be a complex function, then  is analytic in a domain D iff
Answer: v is a harmonic conjugate to u in D

Question: Let  be a complex number, then the argument of z is
Answer: 


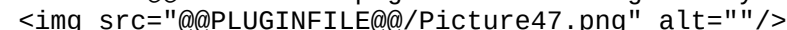
Question: Let  =
Answer: 

Question: Let 
Answer: 

Question: In an Argand diagram, the purely real numbers lie along the
Answer: x-axis

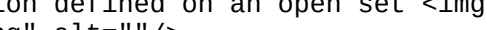
Question: All but one of the following are true
Answer: The differences of analytic functions are analytic

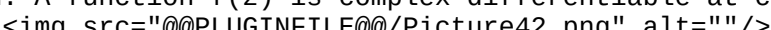
Question: ----- is the branch cut of inverse cosecant
Answer: $(-1, 1)$

Question: The distributive property for the complex numbers  is given by
Answer: 

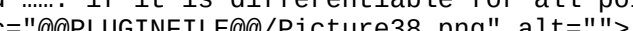
Question: An example of Branch points is
Answer: All the options are examples

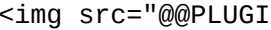
Question: One of the following is true about a continuous function
Answer: all the options are true for a continuous function

Question: One of the following conditions is not equivalent to others if f is an infinitely differentiable function defined on an open set 
Answer: f is a compact function

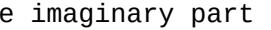
Question: A function $f(z)$ is complex differentiable at c if
Answer: 

Question: One of the following is not an analytic function
Answer: Absolute value function

Question: A function f is called if it is differentiable for all points in an open disk centred at 
Answer: holomorphic

Question:  has real solutions
Answer: no

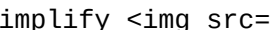

Question: One of these expresses commutative law
Answer: 

Question: All but one of the following are true about a complex number
Answer: The imaginary part of 

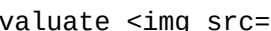
Question: If 
src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUGAAA0SAAAAaCAIAAADZpjw+AAADHULEQVR4n01a27GFIayKLgpKpamGZijm3A9RAYZBeV2dyf6d0Zos2SUG6n6G1yEAhFmhEePokPPYnjlk2m52bSNDRPQzHRHR+4EmnsyW5hFom4PfhQAj/cVjnOtWsD0g0DYHvwmr0toY561ie4ClbQ5+EQav8JMTLW0rZ/yGgyN655bN9wBustQbFlqiNRURYr2B+ZwvcfDyBUNDfzm40e+N6kUEGjq53PdF6KnSq1yc7TNwVf8k4Mj+sZ1ply9RvgA/KJ2W4h2tk+ylGB0Hw606B3BIAkDZNG2n0xsZUgpbIQyWN1p6QZyU0TvAPeh0ruPaz2iGnd0oX6c0g0qR2tAozc4+BSCdfBEHTLLqi6EPeK1IoKDYwjxvEqfILQoGRRWENRJq09K8m82hGJpZGiW5Y70jyJz/+ +jk335pFAk4I1yCabqrh7rpbYeLanBRlXUUbNsm90ADuBCX0vB5yXjl3Pqm4LOHwnpeLMF8fYLPkN/evtpilxicY9Ykh9cKMVUPdXjm2GwREUILq2qzs0sEb0HEBxec/AU+yZWemRtUuYp0cYImKNLF3xDwfvivhbpXQVB0+b52zU3upxo2npwZkQPKmb6tS2PWL5VQdfVNnkZzI930UAgC6CMqTiBGUfg76D20mnoJlZLw4uLVtxMGffchPI/NfYLPurJ+yCh59FXIWQW3tFHX23rW4wpLOI7L4QyJrd3Wu2Fyn78IWh1YZ0rkjbILD+UqnY5rqUnnNwNu/1fTBbqL3fdLZmrq11Vi+FvFwgHuY+E0LYRlTVkbPoJZT0g4unaxKiy8H0sfL4JQxNHVJJSe72XH7n0oNQkpJz8I90SuUsQi7UEaTraIIKNLJ63INctxCsnW6qI2ap9ICSdkTv9PPgVx3TJpwrXpVQ+ +3i97+LmKo0QzvARxyc5nvXMfp0jPhQtrq9H4FhX/QmtovUYWgH+JCDlVX0DRh2PDHdw00/SI8IGJeoI9HWHKw9YBSILod23eGm9Y3x54BLupxC+yXfRRgMjTAHG74Nc7Dh2zAHG74Nc7Dh2zAHG74Nc7Dh2/gd5Kq94m1gB7MAAAAASUVORK5CYIIA" alt="Placeholder for Picture29.png" data-bbox="208 471 378 484"/>>and, then 
src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUGAAAC4AAAAKCAIAAAB5QJ8GAAAAAt0LEQVRYhe2VwRGEIAXFUxcFUU+q+c1QDHTQZxV/VsTsyCHv6JjvIySj1GmQtwW+hAojVBihwggVRqgwQoURKoxQYTQqRZPsSFpcvtIVE1QpwPYSSmS4ePTG8gvq9EAWjlH805aoePbjTmyrwgrWwz8ZnFPsMj2HZ2IWAfILfJbkgMcWw2vRZKq0U86aM9IX09ZWuQTqtNpPVZC9Z3lM5S9Ldv9lf9m0Pue1nPcf9CahwggVxkQqHzxrREKrtH/2AAAAELFTkSuQmCCAA==" alt="Placeholder for Picture27.png" data-bbox="208 551 378 564"/>
Answer: 
src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUGAAADAAAAAWCAIAAAAJlyj7AAAAukLEQVRiie3V2w3DMAgFUOZioDsP07AMwzQfcaMUyXAc9SHV9zcyHGGS00PHQt8G+CxqlbeATJgIOu2BZlArNNxst8NkAkTx57PgXR0JOqcgNpRaLu5VkdRKTUG2iv05lNN6PTUhfLMQUBWbwAUeM5je4mz0Q9w6XpjULY/rmf07DiqoLG5FKDKk4Gc5/LuRyATJmjRNVlqqIrYnCcEtWVJZtQH7WefL9bEt+E/fh13skBVFqjKALXZADI2um8HwDs5AAAAELFTkSuQmCCAA==" alt="Placeholder for Picture25.png" data-bbox="208 631 378 644"/>


Question: The Fundamental Theorem of Algebra states that
Answer: Every non-constant polynomial with coefficients in the set of complex numbers, \mathbb{C} (or set of real numbers, \mathbb{R}) has a root in \mathbb{C}

Question: If 
Answer: .

Question: Simplify 
Answer: 

Question: =
Answer: 4

Question: Evaluate using Euler's equation
Answer: -1

Question: One of the properties of the square of the absolute value is
Answer: 

Question: Let $\langle \text{img src}="@@\text{PLUGINFILE}@@/\text{Picture11.png}" \text{ alt}="" \rangle$, evaluate $\langle \text{img src}="data:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAAC8AAAAsCAIAAAB60XZVAAAA4klEQVRYhe3U0Q3DIAwE0JuLgTwP03gZD9N+FAIxXFRQpEaV7zNE9s0Q4PWk4NeAU0LDExqe0PCEhic0PKHhCQ1PaHhCwxMantDwhIbn7zWWEwAAKdumRkX0JklFqGC1Jo4iN2hcf5XV6aANts62f1CKW06AaF2Zw1XOZ2M5rWtKob5xKaICpGxNd2BnXVTgs3xxBo1r0MHqC34GfhMXb+1q6k7nmpHum29hJprPwYi+LmYzaNxo9iwTzXgmZvbVbPqbt/mBohUr5zLcxiTSfmfH6rB3vrKseUhCwxMantDwvAHElCEkZYdCfwAAAABJRU5ErkJgggA=" alt="" \rangle$
Answer: $\langle \text{img src}="@@\text{PLUGINFILE}@@/\text{Picture8.png}" \text{ alt}="" \rangle$

Question: The absolute value of the conjugate of a complex number is the
Answer: absolute value of the complex number

Question: Given that $\langle \text{img src}="@@\text{PLUGINFILE}@@/\text{Picture7.png}" \text{ alt}="" \rangle$ then z in polar form would be
Answer: $\langle \text{img src}="@@\text{PLUGINFILE}@@/\text{Picture6.png}" \text{ alt}="" \rangle$

Question: The conjugate of the quotient of two complex numbers is the same as
Answer: quotient of the conjugates of the two complex numbers provided the denominator is not zero

Question: Evaluate the modulus of $3 - 7i$
Answer: 58

Question: The modulus of $-3 + 7i$ is
Answer: 58

Question: If an analytic function is smooth, then it is
Answer: infinitely differentiable