Ch.4 Factoring + Trig Test Version 3 Name: Christine Lin
Quadratic Formula
Read all directions carefully.  Watch out for simple, careless errors.  Make sure all figures are labeled appropriately.  Please indicate all answers clearly so they are easy to locate.  Show ALL work you have done to receive full credit for your answer.
1) (5 pts.) Draw a rectangle using algebra tiles for the expression $2x^2 + 7x + 5$ . Sketch your rectangle and write the area as a sum and as a product.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\times$ 1 $\times = -7 \pm \sqrt{72 - 40}$ $\times = \frac{-7 - 3}{4}$ so $\times = \frac{-10}{4} = \frac{-5}{2}$
50 X+2=0
2) (3 pts.) Multiple Choice: The quadratic expression $6x^2 + 6x - 12$ has several possible sets of $2x + 2x $
$6(x-6)(x+2)$ b. $(6x-6)(x+2)$ $6(x-6)(x+2)$ $6x^{2}+12x-6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$ $6x^{2}+6x-12$
6/ +12x-6/ 12
$6x^{2}+6x-12$ C. $(x-6)(6x+2)$ $6x^{2}+(2x-6)(-12)$ $6x^{2}+(2x-6)(-12)$
6x2+12x-36x-12 6x2+6x-12 6x2+6x2-6x2-6x2 6x2+6x2-6x2-6x2 6x2+6x2-6x2-6x2 6x2+6x2-6x2-6x2 6x2+6x2-6x2 6x2
3) (8 pts) Factor the following quadratics if possible. If a quadratic cannot be factored, explain why
a. $2x^2-11x+12$ b. $y^2+7y+7$
this connot be connot be
2+2x-8x a= 2 b=-11 c=12 so 11+5 or 11-5  The square note of 21 courd not be solved completed and so this square note of 21 courd not be completed and so this square note of 21 courd not be completed and so this square note of 21 courd not be completed and so this square note of 21 courd not be completed and so this square note of 21 courd not be completed and so this square note of 21 courd not be completed because this
1 = 4)(2x-3) x11+ [ 1 2/ 14
$\chi = -11 \pm \frac{4}{125}$ $\chi = -11 \pm \frac{4}{125}$ $\chi = -11 \pm \frac{4}{125}$
27-31-88+17
$= 2 \times 2 - \frac{1}{5} \times \frac{17}{5} \times \frac{17}{4} + \frac{17}{8} \times \frac{11}{4} \times \frac{15}{4}$ d. $15p^2 - 3p$
5m2-14m+8 correct!
a=5 6=-14 C= 8
ra = 14 ± 5-142-4.5.8
$M = \frac{1470}{10} = \frac{10}{10} $
m= 14± 1142-160 X-2=0 3P 0 72 MOD
m14+ 171 m-14-6-8 2 4
16 10 19-2 5 x-4=0
-1446 5x-4=0 5x-4=0 15p2-3p

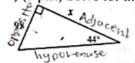
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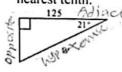
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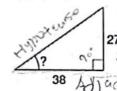
4) (5 pts.) Solve for the missing side length. Show your work. Round lengths to the nearest tenth.



5) (5 pts.) Use trigonometric ratios to solve for the variable. Show your work. Round lengths to the

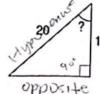


6) (3 pts.) Solve for the missing angle. Show your work.



$$?=35.39^{\circ}$$
 $?=35.39^{\circ}$ 
 $38 \text{ Adjacent } Tan(?)=\frac{27}{38}$ 

7) (3 pts.) Solve for the missing angle. Show your work.



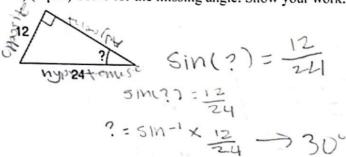
$$?=49.45^{\circ}$$
 $3 = 49.45^{\circ}$ 
 $3 = 20$ 
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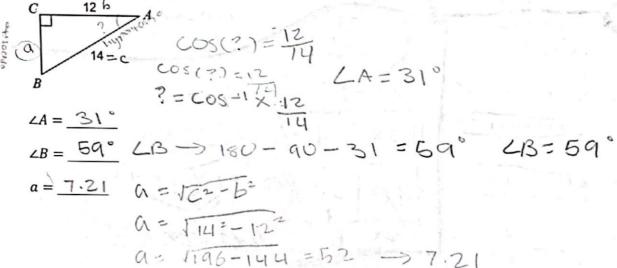
Name: Christine Lin

Date: 12/4/2020 Pd. 1

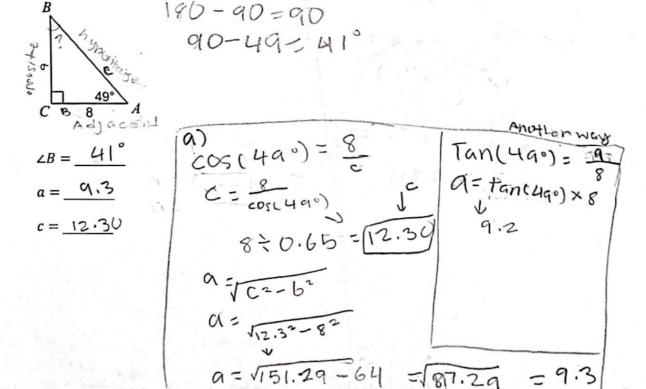
8) (3 pts.) Solve for the missing angle. Show your work.



9.) (6 pts.) Solve the triangle for all missing side lengths and angle measures. Show your work to receive full credit.



10) (6 pts) Solve the triangle for all missing side lengths and angle measures. Show your work to receive full credit.



Bonus) (4 pts) Factor each of the expressions below, if possible. Show your-work.

