**SECTION A**

^^Which quadrant does θ terminates sin θ is positive and tan θ is positive

@@1st quadrant ~

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is positive and tan θ is negative

@@1st quadrant

@@2nd quadrant~

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is negative and tan θ is positive

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant~

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is negative and tan θ is negative

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant~

^^Which quadrant does θ terminates sin θ is positive and cot θ is positive

@@1st quadrant~

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is positive and cot θ is negative

@@1st quadrant

@@2nd quadrant~

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is negative and cot θ is positive

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant~

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is negative and cot θ is negative

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant~

^^Which quadrant does θ terminates sin θ is positive and cos θ is positive

@@1st quadrant~

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is positive and cos θ is negative

@@1st quadrant

@@2nd quadrant~

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is negative and cos θ is positive

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant~

^^Which quadrant does θ terminates sin θ is negative and cos θ is negative

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant~

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is positive and sec θ is positive

@@1st quadrant~

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is positive and sec θ is negative

@@1st quadrant

@@2nd quadrant~

@@ 3rd quadrant

@@ 4th quadrant

^^Which quadrant does θ terminates sin θ is negative and sec θ is positive

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant

@@ 4th quadrant~

^^Which quadrant does θ terminates sin θ is negative and sec θ is negative

@@1st quadrant

@@2nd quadrant

@@ 3rd quadrant~

@@ 4th quadrant

**SECTION B**

^^ Given that  find 

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^^ Given that  find 

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^^ Given that  find 

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^^ Given that  find 

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^^Given that  find 

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^^Given that  find 

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^^Given that  and θ in the 4th quadrant find 

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^^Given that  and θ in the 4th quadrant find 

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^^Given that  and θ in the 4th quadrant find 

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^^Given that  and θ in the 4th quadrant find 

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^^Given that  and θ in the 4th quadrant find 

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**SECTION C**

^^ Sin 550 is less than cos 550

@@True

@@False~

^^ Sin (90+θ) = cos θ

@@True

@@False~

^^ Cosine and Sine have the same signs in the 1st and 2nd quadrants

@@True

@@False~

^^ Cosine and Sine have opposite signs in the 2nd and 4th quadrants

@@True~

@@False

^^ Sine and Tangent have the same sign in the 1st quadrant only

@@True

@@False~

^^ Sine and Tangent have the same sign in the 3rd quadrant only

@@True

@@False~

^^ Cosine and Tangent have opposite signs in the 2nd and 3rd quadrants

@@True

@@False~

^^ Cosine and Tangent have opposite signs in the 3rd and 4th quadrants

@@True~

@@False

^^Sine and Cosine have the same sign in the 3rd quadrant only

@@True

@@False~

^^Sine and Tangent have the same sign in the 1st and 4th quadrants

@@True~

@@False

^^Sine and Tangent have the same sign in the 1st and 3rd quadrant

@@True

@@False~

^^Sine and Tangent have the same sign in the 1st and 2nd quadrant

@@True

@@False~

^^Sine and Tangent have the same sign in the 2nd and 3rd quadrant

@@True ~

@@False

^^Sine and Tangent have the same sign in the 3rd and 4th quadrant

@@True

@@False~

^^Cos 55 is less than sin 55

@@True~

@@False

^^Cos (90+θ) = sin θ

@@True

@@False~

^^Cosine and sine have the same signs in the 1st and 3rd quadrant

@@True~

@@False

^^Cosine and sine have the same signs in the 2nd and 4th quadrant

@@True

@@False~

^^Cosine and sine have the same signs in the 1st quadrant only

@@True

@@False~

^^Sine and Tangent have opposite signs in the 2nd and 3rd quadrant

@@True~

@@False

^^Sine and Tangent have opposite signs in the 2nd and 4th quadrant

@@True

@@False~

^^Cosine and Tangent have opposite signs in the 2nd and 3rd quadrants

@@True

@@False~

**SECTION D**

^^Simplifies to

@@ 2~

@@4

@@ 4/3

@@2/3

^^ Simplifies to

@@ tan2B~

@@cos4B

@@ cos3B

@@sin5B

^^ Simplifies to

@@ cotθ

@@cosecθ ~

@@ secθ

@@sinθ

^^

@@ cot ~

@@tan

@@ sin

@@cos

^^ Simplifies to

@@ cotθ secθ

@@2cosecθ

@@ secθ

@@tanθ ~

^^Simplifies to

@@ tan3θ ~

@@cosec4θ

@@ cos5θ

@@sin2θ

^^Simplifies to

@@ 3

@@3/4

@@ ~

@@2/3

^^2sin45ocos15o Simplifies to

@@ tan35

@@4cosec45

@@ cos15 ~

@@7sin20

^^sin40o +sin20o Simplifies to

@@ tan45

@@4cosec10

@@ cos10 ~

@@sin20

^^Sin60o +sin40o Simplifies to

@@ tan45cos0

@@4cosec10

@@ 2sin50cos10 ~

@@4sec10sin20

^^Sin55o –sin15o Simplifies to

@@ tan15cos35

@@2cos35sin20 ~

@@ 7sin60cos50

@@4sin20

^^Cos65o +cos15o Simplifies to

@@ sin15cos35

@@2cos40cos25 ~

@@ sin40cos25

@@4sin15

^^ Simplifies to

@@sinθ

@@cosθ ~

@@tanθ

@@2cosθ

^^ (1+tanθ)2 + (1-tanθ)2 Simplifies to

@@2sec2θ ~

@@cosθ

@@2sinθ

@@4tanθ

^^ ()2+()2 Simplifies to

@@ ~

@@

@@

@@

^^ Simplifies to

@@ ~

@@

@@cosec2y

@@siny+1

^^ Simplifies to

@@1 ~

@@2/3

@@1/2

@@3/4

^^Sin30o + sin20o Simplifies to

@@ Tan45cos

@@4cosec10sin35

@@ 2sin25cos5 ~

@@4cos10sin25

^^Sin70o - sin40o Simplifies to

@@cos45sin

@@2cos55sin15 ~

@@ 2sin35cos15

@@4cos10sin25

^^Cos50o+cos20o Simplifies to

@@ 2sin35cos

@@2cos35cos15~

@@ 2sin25cos5

@@4cos10cos25

^^Sin200cos150 Simplifies to

@@1/2(sin35+sin5) ~

@@ 1/2(cos35+cos5)

@@ 1/2(sin35-sin5)

@@ 1/2(cos35-cos5)

^^Cos40ocos10o Simplifies to

@@1/2(cos50+cos30) ~

@@ 1/2(cos50-cos30)

@@1/2(sin50-cos30)

@@1/2(sin50+sin30)

^^Sin3θsin2θ Simplifies to

@@-1/2(cos5θ-cosθ) ~

@@ 1/2(cos5θ+cosθ)

@@1/2(sin5θ+sinθ)

@@-1/2(sin5θ-sinθ)

^^Cos (arc sin)

@@

@@

@@~

@@

^^Arc sin (tan)

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@@

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@@~

^^Sin (arc sin)

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@@~

@@

^^Cos (arc cos)

@@~

@@

@@

@@

^^Sin(arc cos)

@@~

@@

@@

@@

^^Tan(arc sin)

@@

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@@

@@~

^^Which of the following is the value of cos 870o

@@ -~

@@

@@

@@

^^Which of the following is the value of sin 870o

@@~

@@

@@ 

@@-3

^^Which of the following is the value of tan 870o

@@

@@

@@~

@@

^^Which of the following is the value of sec 870o

@@~

@@

@@

@@

^^Which of the following is the value of cosec 870o

@@

@@

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@@~

^^Which of the following is the value of cot 870o

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@@~

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@@

^^The reference angle of 3490o is

@@1500

@@1000

@@2000

@@2500 ~

^^The reference angle of 870o is

@@550

@@750

@@1250

@@1500 ~

^^The reference angle of 1380o is

@@300~

@@245

@@215

@@315

^^The reference angle of 1860o is

@@60~

@@45

@@65

@@50

**SECTION E**

^^Given that sin A= tan B=  as A and B are in the 2nd quadrant. find

@@16/65

@@56/65

@@-56/65 ~

@@-16/65

^^Given that sin A=tan B=as A and B are in the 2nd quadrant find 

@@16/65 ~

@@56/65

@@-56/65

@@-16/65

^^Given that sin A=tan B=as A and B are in the 2nd quadrant find 

@@33/65 ~

@@63/65

@@16/63

@@16/65

^^Given that sin A=tan B=as A and B are in the 2nd quadrant find 

@@63/65 ~

@@33/65

@@16/63

@@16/56

^^Given that sin A=tan B=as A and B are in the 2nd quadrant find 

@@-56/33~

@@56/33

@@63/65

@@33/56

^^Given that sin A=tan B=as A and B are in the 2nd quadrant find 

@@-56/33

@@16/63~

@@-16/63

@@56/33

^^Given that sin A= and tan B=where  find 

@@16/65~

@@56/65

@@-56/65

@@-16/65

^^Given that sin A= and tan B=where  find 

@@16/65

@@56/65

@@-56/65~

@@-16/65

^^Given that sin A= and tan B=where  find 

@@63/65~

@@33/65

@@16/63

@@16/65

^^Given that sin A= and tan B=where  find 

@@63/65

@@33/65~

@@16/63

@@16/65

^^Given that sin A= and tan B=where  find 

@@63/65

@@33/65

@@16/63 ~

@@-56/65

^^Given that sin A= and tan B=where  find 

@@-56/33 ~

@@16/63

@@-16/63

@@56/33

^^Given that sin A=-tan B=as A and B are in the 3rd quadrant find 

@@16/65

@@56/65~

@@-56/65

@@-16/65

^^Given that sin A=-tan B= as A and B are in the 3rd quadrant find 

@@16/65

@@56/65

@@-56/65

@@-16/65~

^^Given that sin A=-tan B= as A and B are in the 3rd quadrant find 

@@33/65~

@@63/65

@@16/63

@@16/65

^^Given that sin A=-tan B= as A and B are in the 3rd quadrant find 

@@63/65~

@@33/65

@@16/63

@@16/56

^^Given that sin A=-tan B= as A and B are in the 3rd quadrant find 

@@56/33~

@@56/33

@@63/65

@@33/56

^^Given that sin A=-tan B= as A and B are in the 3rd quadrant find 

@@-56/33

@@16/63

@@-16/63~

@@56/33

^^Given that sin A= - and tan B= -where  find 

@@16/65~

@@56/65

@@-56/65

@@-16/65

^^Given that sin A= - and tan B= -where  find 

@@16/65

@@56/65

@@-56/65~

@@-16/65

^^Given that sin A= - and tan B= -where  find 

@@-63/65~

@@33/65

@@16/63

@@16/65

^^Given that sin A= - and tan B= -where  find 

@@63/65

@@-33/65 ~

@@16/65

@@16/63

^^Given that sin A= - and tan B= -where  find 

@@63/65

@@-16/63 ~

@@33/65

@@33/56

^^Given that sin A= - and tan B= -where  find 

@@56/33

@@16/63 ~

@@-16/63

@@56/33~

**SECTION F**

^^If sin A=  and tan B =,A and B in quadrant 2 and 3 respectively find sin 2A

@@-120/169~

@@120/169

@@119/169

@@-119/169

^^If sin A=- and tan B=, A and B in quadrant 2 and 3 respectively find cos 2A

@@-120/169

@@120/169

@@119/169~

@@-119/169

^^If sin A=- and tan B=, A and B in quadrant 2 and 3 respectively find tan 2A

@@-120/119~

@@120/169

@@119/169

@@-119/169

^^If sin A=- and tan B=, A and B in quadrant 2 and 3 respectively find sin 2B

@@24/25 ~

@@-24/25

@@7/25

@@-7/25

^^If sin A= - and tan B=, A and B in quadrant 2 and 3 respectively find cos 2B

@@24/25

@@-24/25

@@7/25 ~

@@-7/25

^^If sin A= - and tan B=, A and B in quadrant 2 and 3 respectively find tan 2B

@@24/7 ~

@@-24/7

@@7/24

@@-7/24

^^Given that sin A= and tan B= -, A and B are in the 2nd quadrant find sin 2A

@@-120/119 ~

@@120/169

@@119/169

@@-119/169

^^Given that sin A= and tan B= -, A and B are in the 2nd quadrant find cos 2A

@@-120/119

@@120/169

@@119/169 ~

@@-119/169

^^Given that sin A= and tan B= -, A and B are in the 2nd quadrant find tan 2A

@@-120/119 ~

@@120/119

@@-120/169

@@119/169

^^Given that sin A= and tan B= -, A and B are in the 2nd quadrant find sin 2B

@@ -24/25 ~

@@24/25

@@-24/7

@@24/7

^^Given that sin A= and tan B= -, A and B are in the 2nd quadrant find cos 2B

@@ 7/25 ~

@@24/25

@@-24/7

@@24/7

^^Given that sin A= and tan B= -, A and B are in the 2nd quadrant find tan 2B

@@ -24/7 ~

@@24/7

@@7/25

@@25/7

^^If sin A= - and tan B= -, A and B in quadrant 3 and 4 respectively find sin 2A

@@-120/119

@@120/169 ~

@@-120/169

@@119/169

^^If sin A= - and tan B= -, A and B in quadrant 3 and 4 respectively find cos 2A

@@-120/169

@@119/169 ~

@@120/169

@@-119/169

^^If sin A= - and tan B= -, A and B in quadrant 3 and 4 respectively find tan 2A

@@-120/119

@@120/169

@@120/119 ~

@@-120/119

^^If sin A= - and tan B= -, A and B in quadrant 3 and 4 respectively find sin 2B

@@-24/25 ~

@@24/25

@@-24/7

@@24/7

^^If sin A= - and tan B= -, A and B in quadrant 3 and 4 respectively find cos 2B

@@24/25 ~

@@-24/25

@@7/25~

@@-7/25

^^If sin A= - and tan B= -, A and B in quadrant 3 and 4 respectively find tan 2B

@@-7/24

@@7/24

@@-24/7 ~

@@24/7

**SECTION G**

^^If tan A =  then tan ½A=

@@ -5, 1/5 ~

@@3, -1/3

@@5, -1/5

@@-3, 1/3

^^If tan B = then tan ½B=

@@-5, 1/5

@@3, -1/3 ~

@@5, -1/5

@@-3, 1/3

^^If tan A = then tan ½A=

@@-5, 1/5

@@3, -1/3

@@5, -1/5 ~

@@-3, 1/3

^^If tan B = then tan ½B=

@@-5, 1/5

@@3, -1/3

@@5, -1/5

@@-3, 1/3~

^^For what values of x is the equation  where x is between 00 to 1800

@@ (60o , 90o)

@@ (60o , 180o) ~

@@ (30o , 90o)

@@ (60o , 120o)

^^Given that sin θ + cos θ = then the pair is

@@ (2, 45o)

@@ (, 30o)

@@ (, 45o) ~

@@ (, 30o)

^^Given that 24cos θ + 7sin θ = then is

@@25 ~

@@24

@@30

@@36

^^Given that sin θ - cos θ = then the pair is

@@ (2, 30o) ~

@@ (2 , 45o)

@@ (2, 60o)

@@ (2, -30o)

^^Given that sin θ - cos θ = then the pair is

@@ (2, 60o) ~

@@ (2 , 45o)

@@ (2, 90o)

@@ (2, 30o)

^^Given that cos θ + sin θ = then the pair is

@@ (2 , 30o) ~

@@ (2 , 45o)

@@ (2, 60o)

@@ (2, -30o)

^^Given that cos θ - sin θ = then the pair is

@@ (2 , 30o)

@@ (2 , 45o) ~

@@ (2, 60o)

@@ (2, -30o)

**SECTION H**

^^ If the distance between the points Then the two possible values of are

@@

@@

@@

@@~

@@and 7

^^Find the coordinates of midpoint of the line joining (-1, 1) and (5, 7).

@@

@@

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@@ ~

@@

^^The distance between and is

@@ ~

@@

@@

@@

^^The distance between and is

@@

@@~

@@

@@

^^ The polar form of the point is

@@

@@ ~

@@

@@

^^ The distance between points (-3, 8) and (8, -5) is

@@ 19.03 units

@@ 11.03 units

@@ 15.03 units

@@ 17.03 units~

^^ The distance between points A (2, 2) and B (9, 11) is

@@ 11.4~

@@ 13.4

@@ 15.4

@@ 17.4

^^ If the distance between the points Then the two possible values of are

@@

@@

@@ ~

@@

^^ The polar coordinate of the point is

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@@~

^^ The Cartesian coordinate of the point is

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^^ The Cartesian coordinate of the point is

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^^ The distance between and is

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^^The Cartesian coordinate of the point is

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@@ ~

^^ The Cartesian coordinate of the point is

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@@ ~

**SECTION I**

^^The slope the line is

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^^ If a line passes through point A(0, c) and has gradient 'm' then equation will be

@@ y = mx + c ~

@@ c = xy + m

@@m = xy + c

@@ cx = y + m

^^ Straight line equation has gradient of

@@

@@

@@

@@ ~

^^ The slope of the points A and B is

@@ ~

@@

@@

@@

^^ The slope of the points A and B is

@@

@@~

@@1

@@5

^^ The slope of the points A and B is

@@

@@

@@ ~

@@0

^^ The slope of the points A and B is

@@

@@

@@~

@@-a

^^ If are the gradients of two parallel lines then

@@ ~

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@@

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^^ Find the equation of a circle whose diameter and centre is

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@@ ~

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^^ The equation of a circle with centre at (0,-3) and radius is

@@

@@ ~

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@@

^^ The coordinate of centre to the circle is

@@

@@

@@

@@ ~

^^ The radius of the circle is

@@ 4 ~

@@ 6

@@ 16

@@ 3

^^ Any line parallel to the Y- axis has a zero gradient.

@@ True

@@ False ~

^^ Given the points A(2 ,5) and B(5,8 ) the coordinate of the point C which divides AB internally in `````the ratio 2:1 is

@@ (8, 11)

@@ (4, 7) ~

@@ (7, 4)

@@ (3, 5)

^^ The gradient of the line joining S(4, 8) and T(5,-2) is

@@ -2

@@ 8

@@ -8

@@ -10 ~

**SECTION J**

^^ If the centre of a circle of radius r is at the origin, then the equation to its tangent at ( is

@@

@@ ~

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^^ The equation of the line through (1 , 0) which is parallel to the line is

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@@ ~

@@

^^ The equation of the straight line passing through point A(1, 1) at an angle is

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@@~

@@

^^ If are the gradient of two transverse lines then

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@@ ~

^^ The equation of the straight line passing through (1,1) and (-1,1) is

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@@ ~

^^ The angle between line and is

@@

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@@

@@

^^ The equation of the line through (1, 0) which is parallel to the line is

@@

@@

@@

@@~

^^ The equation of the line through (1, 0) which is perpendicular to the line is

@@

@@

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@@~

^^ The equation of normal to the circle which passes through the point (1,1) is

@@

@@ ~

@@

@@

^^ The equation of tangent to the circle which passes through the point (1,1) is

@@

@@

@@ ~

@@

^^ The equation of the straight line passing through point A(1, 1) at an angle with slop of is

@@~

@@

@@

@@

^^ The equation of the straight line passing through point A(1, 1) at an angle with slop of is

@@~

@@

@@

@@

^^ The angle between line and is

@@

@@~

@@

@@

^^ The angle between line and is

@@

@@

@@~

@@

^^ The equation of a straight line through the point (1, 1) with slope 1350 is

@@ + x+1=0

@@ + x -2=0 ~

@@- x+1=0

@@– x-1=0

^^ Given the triangle ABC with coordinate points A(1,3) B(-7,6) and C(5,-1).The area of the triangle is

@@ 50 sq unit

@@ 6 sq unit

@@ 25 sq unit

@@ 10 sq unit ~

^^ The following lines 3x + 2y +1 = 0 and x - 3y + 5 = 0 meets at the point

@@

@@

@@ ~

@@

^^ The equation of the tangent to the circle at the point (2,1) is

@@

@@

@@ ~

@@

^^ A 17 ft ladder against a wall has its foot 8ft from the base of the wall. At what height is the top of the ladder touching the wall?

@@ 9ft

@@ 15 ft ~

@@ 25 ft

@@ 13 ft

^^A 17 ft ladder against a wall has a height of 15ft. What is the distance between the base of the wall and the foot of the ladder

@@ 9ft

@@ 8 ft ~

@@ 25 ft

@@ 13 ft

^^If the slope of a line is , then the slope of the line perpendicular to it is?

@@

@@

@@ ~

@@