MasterMath

Rewriting equations and formulas

Name _____

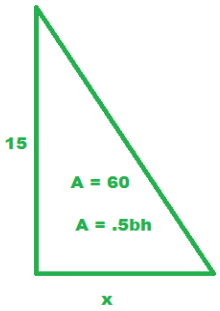
Date _____

1. Solve these equations for y

equation	y =
y - 3 = x + z	x+z+3
2x + y = 2z	2z-2x
z - 3y = 8x	1/3z - 8/3x
x + y = z - y	1/2z - 1/2x
3z + 2y + 4 = x	1/2x - 1 1/2z - 2
z - 6y + 2 = x + 2	1/6(z-x)
xy = z + 2	(z+2)öx
3y - 2x = 5z + 2	1/3(5z+2x+2)

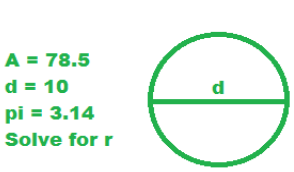
equation	y =
x - 1/2y = 6z	2x - 12z
3z + .5y = 11x	22x - 6z
6x = y - z	6x+z
15x + 2y = z	1/2(z - 15x)
2z = 4x + 3y	1/3(2z - 4x)
1/3x - 2/3y = 2z	1/2x - 3z
z + 2y = 5x	1/2(5x - z)
π + y = z	z - π

2. Solve for x



8

3.



$A = \pi r^2$

5

4. A farmer has 180 acres planted. 1/4 is soy beans (S); he has twice as much planted as corn (c); and the rest is tomatoes (t). How many acres of tomatoes does he have planted?

45

5. The formula to convert temperatures from Fahrenheit (F) to Kelvin (K) is K = 5/9(F - 32) + 273.15. Solve this formula for F.

1.8(K-255.72)

6. Referring to Problem 5, above, if the temperature is 300° Kelvin, what is the temperature in Fahrenheit?

80.33