# Answers to Solving Systems of Equations by Substitution

1) $(4, 2)$

3) $(-3, 8)$

5) $(5, 1), (1, 9)$

7) $(8, 42)$ and $(-2, 2)$

9) $(2, 4)$ and $(-2, 4)$

11) T: # teachers S: # students

$T + S = 28$

$T = S - 20$

13) B: # boys G: # girls

$B + G = 24$

$G = 3 + 2B$

15) $x$: price per dozen for Oatmeal Cookies

$y$: price per dozen for Chocolate Chip Cookies

$7x + 6y = 73$

$x + y = 11$

Oatmeal cookies: \$7 per dozen

Chocolate Chip cookies: \$4 per dozen

17) J: # baskets Jane scored

F: # baskets Francine scored

$J + F = 20$

$J = 4F$

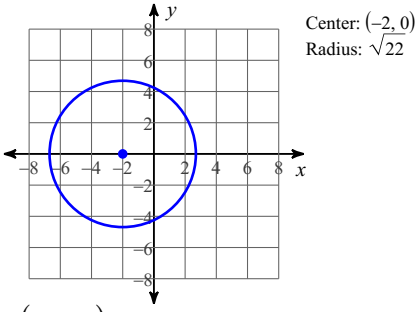
16 baskets

19) $t = 4$ seconds

$h = 15$ meters

21) $(8, 0)$ and $(0, -8)$

23)




25) $(x - 12)^2 + (y - 8)^2 = 45$

27) $n(n - 3)$

29) $-(x - 3)^2$

31) $(k + 2)(k - 2)$



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