

Equations Self-Test  
SOL'S covered: A.4abdf

Name \_\_\_\_\_

- 1) Solve:  $3.2 = h - 7$   
a)  $h = 3.9$     b)  $h = -3.8$     c)  $h = 3.8$     d)  $h = 10.2$     e) none of these
- 2) Which equation would you use to solve the problem: Ten less than Mark's age is 43. Find his age.  
a)  $10 - a = 43$                       b)  $43 - a = 10$                       c)  $a + 43 = 10$   
d)  $a + 10 = 43$                       e)  $a - 10 = 43$
- 3) Solve:  $\frac{-1}{3}y = 15$   
a)  $y = -5$     b)  $y = 45$     c)  $y = 5$     d)  $y = 6$     e)  $y = -45$
- 4) Solve  $5y - 8y = -39$   
a)  $y = -3$     b)  $y = -13$     c)  $y = 3$     d)  $y = 7$     e)  $y = 13$
- 5) Solve  $-5x + 7 = 17$   
a)  $x = -24/5$     b)  $x = 2$     c)  $x = 15$     d)  $x = 19$     e) none of these
- 6) Solve  $E = IR$  for I.  
a)  $I = E/R$     b)  $I = R/E$     c)  $I = ER$     d)  $I = E^R$     e) none of these

**Solve each of the following. SHOW ALL OF YOUR WORK!!!**

7)  $m + 13 = -9$                       8)  $y + (-3) = 12$                       9)  $k - (-3) = 28$

10)  $-3x = 63$                       11)  $3x + 1 = 16$                       12)  $\frac{3x}{4} = -27$

13)  $-3y + 2 = 20$                       14)  $\frac{x}{2} - 3 = -7$                       15)  $2x - 4 = 2x + 5$

16)  $4x + 4 = 2x - 5$                       17)  $3(x - 1) = 7$                       18)  $3x - 9 = 3(x - 3)$

19)  $2(x + 3) = 4(x - 2)$

20) Solve  $Q = 2 + RT$  for  $T$ .