

EXTRA PRACTICE 18

Formulas

Use after Section 6.8

Name _____

Examples:

a) Solve $A = P(1 + rt)$, for r .

$$A = P + Prt$$

$$A - P = Prt$$

$$\frac{A - P}{Pt} = r$$

b) Solve $\frac{1}{160} = \frac{x-2}{y}$, for x .

$$y = 160(x - 2)$$

$$y = 160x - 320$$

$$y - 320 = 160x$$

$$\frac{y - 320}{160} = x$$

or

$$y = 160(x - 2)$$

$$\frac{y}{160} = x - 2$$

$$\frac{y}{160} + 2 = x$$

Solve.

1. $H = U + PV$, for P _____

2. $E = \frac{hc}{k}$, for k _____

3. $PV = nRT$, for R _____

4. $E = \frac{1}{2}mv^2$, for m _____

5. $w = Fd$, for F _____

6. $K = \frac{AB}{CD}$, for C _____

7. $E = \frac{h^2 n^2}{8ma^2}$, for n^2 _____

8. $A = 2lw + 2lh + 2wh$, for w _____

9. $f^2 = i^2 + 2ad$, for a _____

10. $E = -\frac{R}{n^2}$, for R _____

EXTRA PRACTICE 18 (continued)**Formulas****Use after Section 6.8**

11. $V = 2\pi rw$, for r _____

12. $q = mC(T - t)$, for T _____

13. $V = \frac{1}{3}\pi r^2h$, for r^2 _____

14. $\left(P + \frac{a}{V^2}\right)(V - b) = RT$, for P

15. $V = mgh$, for m _____

16. $d = vt + \frac{1}{2}at^2$, for v _____

17. $D = \frac{a}{T^2} + b + \frac{c}{T^4}$, for c _____

18. $L = ax^2 + bx + c$, for b _____

19. $q = \frac{a(m+c)}{r^2}$, for c _____

20. $x = \frac{mL^2 + c}{b} - ac$, for c _____