

Algebra I (Section 2.3 Day 2)

6. $SA = 2\pi r^2 + 2\pi rh$

$SA - 2\pi r^2 = 2\pi rh$

$$h = \frac{SA - 2\pi r^2}{2\pi r}$$

8. $PV = nRt$

$$T = \frac{PV}{nR}$$

10. $C = \frac{wtc}{100}$

$100C = wtc$

$$w = \frac{100C}{tc}$$

12. $-10 = xy + z$

$-10 - z = xy$

$$x = \frac{-10 - z}{y}$$

14. $\frac{h-4}{j} = k$

$h-4 = kj$

$$j = \frac{h-4}{k}$$

16. $5p + 9c = p$

$9c = p - 5p$

$9c = -4p$

$$c = \frac{-4p}{9}$$

18. $g\left(h + \frac{2}{3}\right) = 1$

$h + \frac{2}{3} = \frac{1}{g}$

$$h = \frac{1}{g} - \frac{2}{3}$$

20. $A; b = \frac{y-3x}{3}$

21. $El = qr$

$E = \frac{qr}{l}$

$E = \frac{9(5)}{18}$

$$E = 2.5$$

22. $t - g = -0.0035a$

$a = \frac{t-g}{-0.0035}$

$a = \frac{-65.5 - 57}{-0.0035}$

$$a = 35,000 \text{ ft}$$

24.

$$C = 5p + 215$$

$$C - 215 = 5p$$

$$p = \frac{C - 215}{5}$$

$$p = \frac{300 - 215}{5}$$

$$p = 17 \text{ people}$$

25. $A = \frac{1}{2}bh$

$$2A = bh$$

$$b = \frac{2A}{h}$$

$$b = \frac{2(192)}{12}$$

$$b = 32 \text{ mm}$$