Rewriting Equations and Formulas

① Solve the equation $2y+5x=6$ for y.

$$2y+5x=6$$
$$-5x \quad -5x$$
$$\frac{2y}{2} = \frac{-5x+6}{2}$$
$$y = -\frac{5}{2}x+3$$

② Solve $S=\pi r^2+\pi rl$ for l.

$$S=\pi r^2+\pi rl$$
$$-\pi r^2 \quad -\pi r^2$$
$$\frac{S-\pi r^2}{\pi r} = \frac{\pi rl}{\pi r}$$
$$\frac{S-\pi r^2}{\pi r} = l$$

③ Solve $C=\frac{5}{9}(F-32)$ for F.

$$C=\frac{5}{9}(F-32)$$
$$\frac{9}{5}\cdot C = \frac{9}{5}\cdot\frac{5}{9}(F-32)$$
$$\frac{9}{5}C = F-32$$
$$+32 \quad +32$$
$$\frac{9}{5}C+32 = F$$