

$$\begin{aligned} (16) \quad 10(1-2y) &= -5(2y-1) \\ 10-20y &= -10y+5 \\ +20y \quad +20y & \\ 10 &= 10y+5 \\ -5 \quad -5 & \\ \frac{5}{10} &= \frac{10y}{10} \\ \frac{5}{10} &= y \\ y &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} (18) \quad 2\left(s = \frac{1}{2}gt^2\right) & \text{ for } g \\ \frac{2s}{t^2} &= \frac{gt^2}{t^2} \\ \frac{2s}{t^2} &= g \quad t \neq 0 \end{aligned}$$

$$\begin{aligned} V &= \frac{\pi r^2 h}{\pi r^2} \text{ for } h \\ \frac{V}{\pi r^2} &= h \\ r &\neq 0 \end{aligned}$$

$$\begin{aligned} (20) \quad \frac{x}{a} - 5 &= b \text{ for } x \\ \frac{x}{a} + 5 &= b + 5 \\ a\left(\frac{x}{a} = b + 5\right) & \\ x = ab + 5a & \\ a &\neq 0 \end{aligned}$$

④ $v = s^2 + \frac{1}{2}sh$ for h .

$$2(v - s^2) = sh$$

$$\frac{2(v - s^2)}{s} = h$$

$$\frac{2(v - s^2)}{s} = h$$

$s \neq 0$

DC 8/31

① $4(k+5) = 2(9k-4)$

② $h = vt - 5t^2$ for v .

1-4 Solving Inequalities

① $3x - 12 < 3$

$$\frac{3x}{3} < \frac{15}{3}$$

$$x < 5$$

② $6 + 5(2-x) \leq 41$

$$\frac{5(2-x)}{5} \leq \frac{35}{5}$$

$$-2 - x \leq 7$$

$$-x \leq 9$$

$$x \geq -9$$

$x < 5$ and $x \geq -9$

$<, >$ use Open Circles

\leq, \geq use Closed Circles

$-x \leq 5$

$x = 4$

$-4 \leq 5$

~~$x \leq 5$~~

~~$4 \leq 5$~~

Ex 3) ① $2x - 3 > 2(x - 5)$

$$\begin{array}{r} 2x - 3 > 2x - 10 \\ -2x \quad -2x \end{array}$$

$$-3 > -10$$

True

All Real numbers

Try
Pg 29
5, 9, 11, 18, 19, 25