## Section 1.7

Video 1
Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.

1) $3 x-10<8$
2) $-2 x+7 \leq 17$
3) $9 x-11 \geq 2(x+5)$
4) $2 x-9>4 x+21$

## Video 2

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation. 5) $-8 \leq 3 x+10 \leq 25$
6) $2 x-3<11$ or $3 x+5 \geq 35$

## Video 3

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation. 7) $x^{2}-5 x-36<0$

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.
8) $4 x^{2}+12 x-27 \geq 0$

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.
9) $x^{2}+6 x-10 \leq 0$

## Video 4

10) A projectile is fired from the roof of a building 27 feet tall with an initial velocity of 64 feet per second. For what length of time is the projectile at least 75 feet above the ground?

## Video 5

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.
11) $\frac{x-9}{x+4}>0$

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.
12) $\frac{x^{2}-5 x-14}{x^{2}-25} \leq 0$

## Video 6

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.
13) $\frac{3}{x+5}>2$

Solve. Present your solution set in set-builder notation, on a number line, and using interval notation.
14) $\frac{6 x+1}{2 x-3}<4$

