

6.6 – 6.7 Solving Inequalities Worksheet

1) Solve and graph.

a) $x - 1 \leq 3$

c) $4 > 9 - x$

b) $x + 3 > 2$

d) $9 \leq 15 - x$

2) Solve and graph.

a) $7x < 14$

d) $21 - 5z > 11$

b) $9 > -2x$

e) $13 \leq 1 - \frac{3}{4}x$

c) $3y + 8 > 17$

f) $18 \geq 4.5 - 1.5a$

3) Solve and graph.

a) $4x - 7 \geq 2x + 5$

b) $-25 + 11z \leq 30 - 11z$

c) $3(x + 2) \leq 12$

d) $4(2 - x) \leq 5(x - 2)$

e) $2(x + 8) \leq 4(3 + x)$

f) $-3y + 8 < 5 - 7y$

g) $-35 - 8a > 6a - 7$

h) $18 + 10z \geq -12 - 2z$

i) $3(-8 + 2x) > 4 - 2(3x + 5)$

j) $6(-2c - 11) < -5(3c + 8)$