Quadratics inequalities

Name - _ _ _ _ _ _ _ _ Start time - _ _ : _ _ End time - _ _ : _ _

Solve the following.

Solve each quadratic inequality, giving your solution using set notation.

a) $x^2 < \frac{1}{4}$

b) $x^2 > \frac{1}{36}$

c) $x^2 \leq \frac{1}{121}$

d) $x^2 \geq \frac{1}{25}$

e) $x^2 < \frac{4}{9}$

f) $x^2 \geq \frac{25}{49}$

g) $x^2 \leq \frac{9}{16}$

h) $x^2 < \frac{16}{169}$

Solve each quadratic inequality and show the solution on a number line.

a) $x^2 + 20 < 9x$

b) $x^2 < 6x + 27$

Solve each quadratic inequality, giving your solution using set notation.

a) $x^2 - 4x > 0$

b) $x^2 > 12x$

c) $x^2 + 3x \leq 0$

d) $x^2 \leq 2x$

e) $x^2 - 5x < 0$

f) $x^2 \geq 9x$

g) $x^2 + 18 \leq 9x$