

1.80
1

I $\frac{(x+2)^2(x^2-8x)}{(x^2-4x+3)(x^2-1)} \geq 0$

$$0 \leq \frac{(x+2)^2(x^2-9)(x^2+9)}{(x-3)(x-1)(x-1)(x+1)} = \frac{(x+2)^2(x-3)(x+3)(x^2+9)}{(x-3)(x-1)(x-1)(x+1)} =$$

$$0 \leq \frac{(x+2)^2(x+3)(x^2+9)}{(x-1)^2(x+1)}$$



$x > 3, 1 < x < 3, -1 < x < 1, x \geq -3$

II

$$1 \leq |x-3| < 5$$

$x > 3$

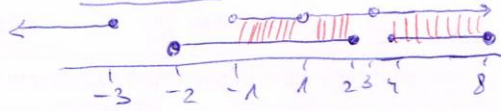
$$1 \leq x-3 < 5$$

$$4 \leq x < 8$$

$x \leq 3$

$$1 \leq -x+3 < 5$$

$$-2 \leq x \leq 2$$



number line

$-1 < x < 1, 1 < x < 2, 4 \leq x < 8$