

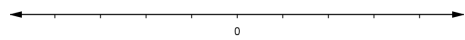
SOLVE INEQUALITIES BY FACTORING

➤ Solve and graph the solution set

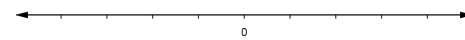
1)  $(x-4)(x+2) > 0$

2)  $(x+1)(x-3) < 0$

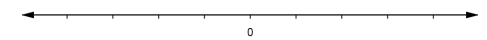
3)  $x^2 - 3x + 2 \geq 0$



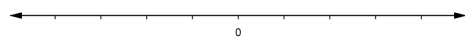
4)  $x^2 + x - 20 < 0$



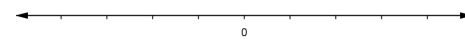
5)  $(x-1)(x+2)(x-3) < 0$



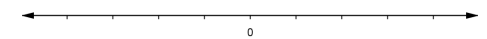
6)  $x^2 - 16 > 0$



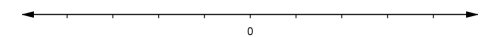
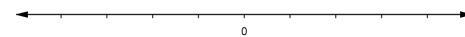
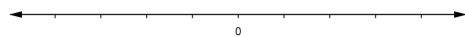
7)  $x^2 + 6x + 9 > 0$



8)  $4x^2 - 8x + 3 < 0$



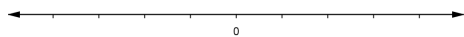
9)  $(2x-1)(x-4)(2x+3) > 0$



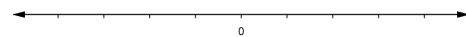
**10)**  $x^3 + 3x^2 - x - 3 \leq 0$

**11)**  $x^2 \leq 9$

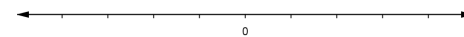
**12)**  $z^2 - 4z > 0$



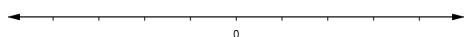
**13)**  $r^2 \leq 2(r+4)$



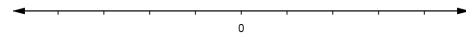
**14)**  $4x(x+1) \geq 3$



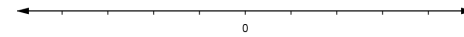
**15)**  $x^2 + 9 \leq 6x$



**16)**  $x^3 - 16x > 0$



**17)**  $t^3 < 9t^2$



**18)**  $(x^2 - 4x)(x^2 - 4) < 0$

