

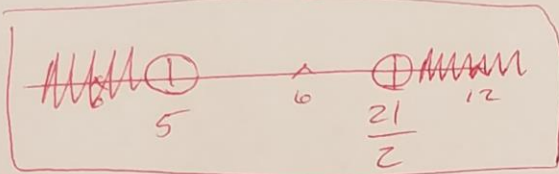
HW 42

③ $\frac{2x+1}{x-5} = 4$

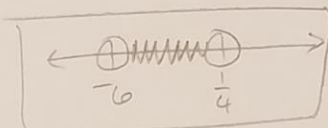
$2x+1 = 4x-20$

$21 = 2x$

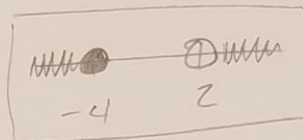
$x = \frac{21}{2}$



① $4x^2 + 23x - 6 = 0$
 $(4x-1)(x+6) = 0$
 $x = \frac{1}{4}, -6$



② $\frac{x+4}{x-2} = 0$
 $x+4=0$



④ $1 + 3 \log_2 x = 7$

$3 \log_2 x = 6$

$\log_2 x = 2$

$2^2 = x$

$x = 4$

⑤ $\log_{\sqrt{11}}(x^2 + 6x - 16) = 2$

$11 = x^2 + 6x - 16$

$0 = x^2 + 6x - 27$

$(x+9)(x-3)$

$x = -9, 3$

