graphing calc. — on/off
— range — view window
— zoom/trace
— root — solution — x int

DESMOS — online

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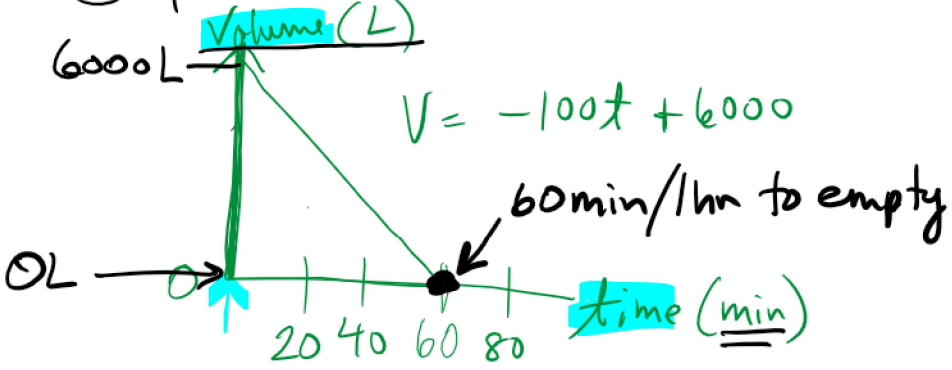
Get Started



$V = -100t + 6000$
$0 = -100t + 6000$
$100t = 6000$
$t = \frac{6000}{100} = 60$ min

V = 0
t intercept

Construct Understanding.

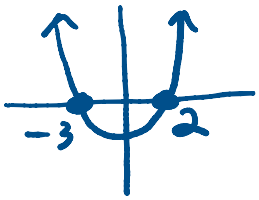
A. solve.

$x^2 + x - 6 = 0$
$(x+3)(x-2) = 0$

$x^2 - 9x = 0$
$x(x-9) = 0$
$x = 0, 9$

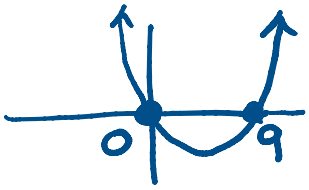
$(x+3)(x-2)=0$

$x=-3, 2$



$x(x-9)=0$

$x=0, 9$



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① $5x^2+7x-6=0$

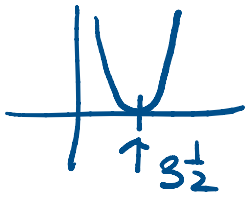
x int g.c. $x=-2, 0.6$

exact FACTOR $(5x-3)(x+2)=0$

$x=\frac{3}{5}, -2$

② $4x^2-28x+49=0$

x int g.c.



exact $(2x-7)(2x-7)=0$

$x=\frac{7}{2}$

Function	x int or zeros	quad equation	discr. b^2-4ac
$y=x^2+x-6$	$-3, 2$	$x^2+x-6=0$	$1-(-24)=25$

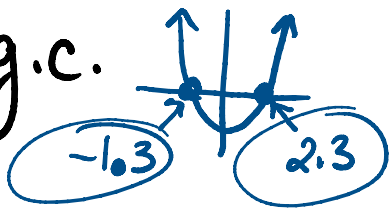
C. $x^2-x-3=0$

factor ⊕ -1 ⊗ -3 $-1, 3$ $1, -3$

// quad formula $x=\frac{1 \pm \sqrt{1-4(-3)}}{2}$

factor ( )( ) = 0 1, -3 // $x = \frac{1 \pm \sqrt{1-4(-3)}}{2}$

g.c.



$x = \frac{1 \pm \sqrt{13}}{2}$ exact

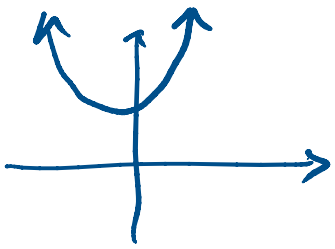
D. $x^2+x+3=0$ # roots b^2-4ac

$1^2-4(1)(3)$

$1-12=-11$

Since negative answer NO solution

g.c.



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