

Morning

Socks on

Shoes on

Laces tied

PEMDAS

Afternoon

Laces untied

Shoes off

Socks off

(SADMEP)

$$1) \quad 3(x-4) + 2 = 5$$

$\quad \quad \quad -2 \quad \quad -2$

$$\frac{3(x-4)}{3} = \frac{3}{3}$$

$$x-4 = 1$$

$$+4 \quad +4$$

$$x = 5$$

$$2) \quad 3(x-4)^2 + 2 = 29$$

$\quad \quad \quad -2 \quad \quad -2$

$$\frac{3(x-4)^2}{3} = \frac{27}{3}$$

$$(x-4)^2 = 9$$

$$x-4 = 3$$

$+4 \quad +4$

$$x = 7$$

$$x-4 = -3$$

$+4 \quad +4$

$$x = 1$$

SADMEP

3)



$$x^2 - 4x + 1 = 2$$

	$x - 2$		
x	x^2	$-2x$	$+1$
-2	$-2x$	4	-4

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vertex: $(2, -3)$

$$(x-2)^2 - 3 = 2$$

+3 +3

$$(x-2)^2 = 5$$

$$x-2 = \sqrt{5}$$

$$x-2 = -\sqrt{5}$$

$$x = \sqrt{5} + 2$$

$$x = -\sqrt{5} + 2$$

4)

$$-4x^2 - 44x = 0$$

$$= 4$$

$$x^2 + 11x = 0$$

	$x + 11$		
x	x^2	$11x$	
$+0$	0	0	$= 0$

OR

	$x + 5.5$		
x	x^2	$5.5x$	30.25
$+5.5$	$5.5x$	30.25	

$$(x+11)(x+0) = 0$$

$$x = -11, x = 0$$

$$(x+5.5)^2 - 30.25 = 0$$

$$(x+5.5)^2 = 30.25$$

$$x+5.5 = \pm 5.5$$

$$x = -11, x = 0$$

5) $y = -3x^2 + 12x + 15 \rightarrow y\text{-int}$
 $-3 \quad -3 \quad (0, 15)$

$$\frac{y}{-3} = x^2 + -4x - 5$$

To find x-ints, make $y=0$

$$0 = x^2 - 4x - 5$$

Factor CTS

	x	-5
x	x^2	$-5x$
1	$1x$	-5

$$0 = (x-5)(x+1)$$

x-ints: $(5, 0)$ $(-1, 0)$

$$\frac{y}{-3} = (x-2)^2 - 9$$

$$y = -3(x-2)^2 + 27$$

Vertex $(2, 27)$

	x	-2	
x	x^2	$-2x$	-5
-2	$-2x$	4	-4

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

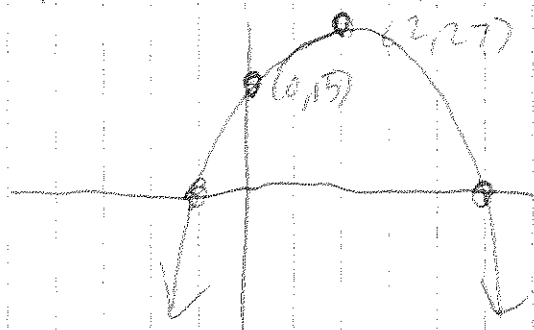
$$9 = (x-2)^2$$

$$x-2=3$$

$$x=5$$

$$x-2=-3$$

$$x=-1$$



[The page contains extremely faint and illegible text, likely a scan of a document with very low contrast or significant fading. The text is arranged in multiple columns and paragraphs, but no specific words or structures are discernible.]