Name_____ Session 1 2 3 (Circle one) Date_____

DD3

1.

Find the points at which the graph of the equation $-4y = 15 - 5x$ crosses the x-axis and the y-axis.

A $(0, -3.75)$ and $(3, 0)$

B $(0, 3)$ and $(0, -3.75)$

C $(-3.75, 0)$ and $(0, 3)$

D $(3, 0)$ and $(-3.75, 0)$

2.

Simplify the algebraic expression $2(5x + 4) + 3x - (7 - x)$.

A $9x - 1$

B $11x - 1$

C $12x + 1$

D $14x + 1$

3.

What are the zeros of the function $f(x) = -4(x - 3)(x + 5)$?

A -12 and 20

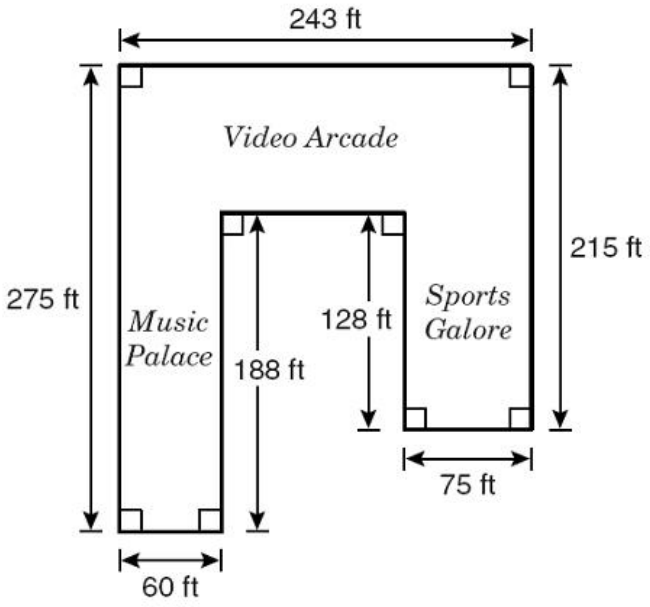
B -5 and 3

C -4 and -5

D -3 and 5

4.

The dimensions of 3 connected stores are shown below.



How many square feet of floor space are used by the 3 stores?

A 9,600 ft^2

B 11,280 ft^2

C 21,141 ft^2

D 42,021 ft^2

5.

Which of the following does not represent a function?

A $\{(-6, 4), (3, -5), (0, -2), (-1, -1)\}$

B $y = 3x^2 - 2$

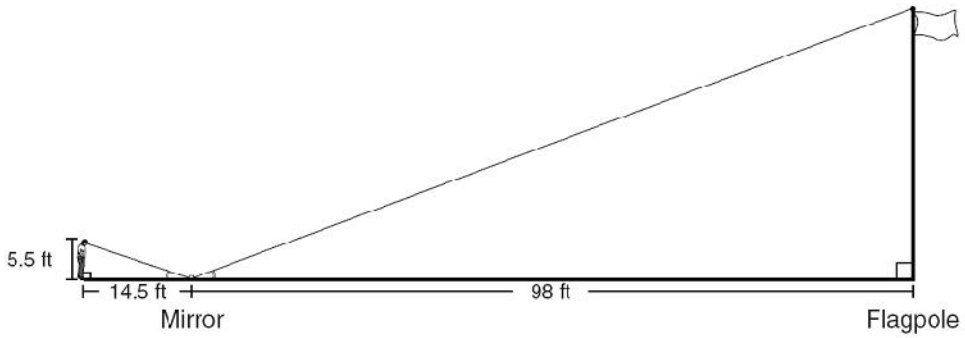
C

x	y
−2	15
6	9
−5	−10
−2	−6
3	4

D $y = \frac{4x - 3}{5}$

6.

Jeff used the indirect method of measurement to find the height of a flagpole. He first placed a mirror on the ground 98 feet from the flagpole. The dimensions Jeff measured are shown in the drawing.



What is the approximate height of the flagpole?

A 20.5 ft

B 37.2 ft

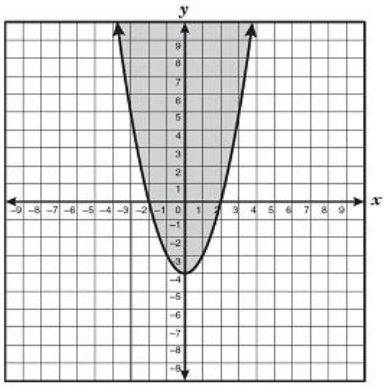
C 258.4 ft

D 618.8 ft

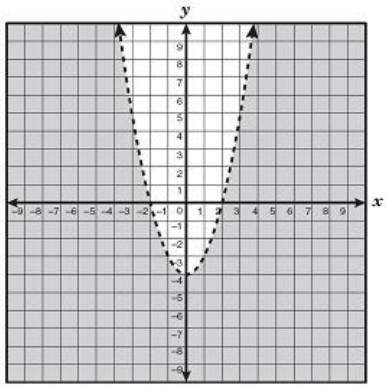
7.

Which graph best represents the inequality $y \geq x^2 - 4$?

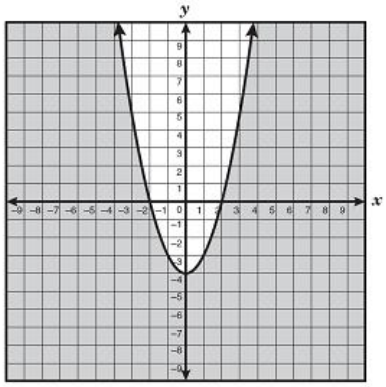
A



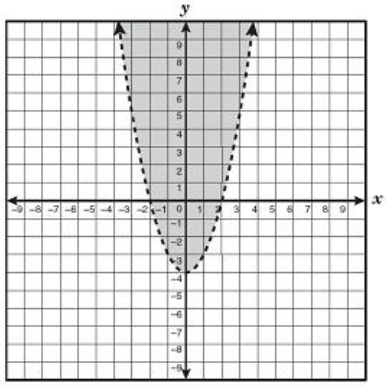
C



B



D



8.

Which of the following tables best represents a linear function with a rate of change of $-\frac{4}{5}$?

A

x	y
–6	6.5
–4	4
–2	1.5
6	–8.5
10	–13.5

C

x	y
–4	–2
–2	0.5
1	4.25
4	8
6	10.5

B

x	y
–3	5.4
–1	3.8
3	0.6
5	–1
8	–3.4

D

x	y
–7	–10.6
–4	–8.2
–1	–5.8
3	–2.6
5	–1