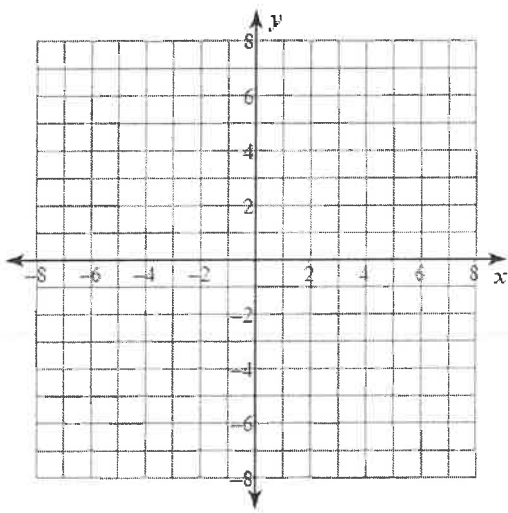


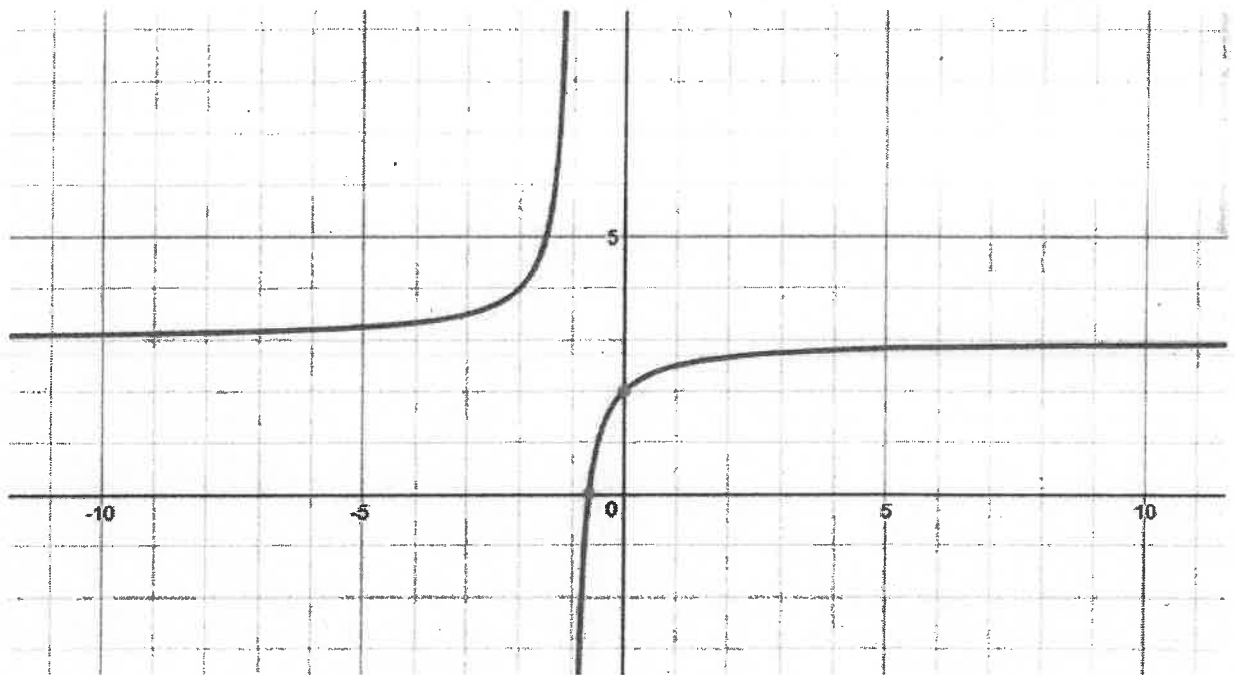
AN ADULT FEMALE'S HEIGHT CAN BE APPROXIMATED BY THE SQUARE ROOT OF THE PRODUCT OF 23 AND THE LENGTH OF THEIR FOREARM.

A) ABOUT HOW TALL IS A WOMAN WHOSE FOREARM IS 1.4 FT LONG?

B) ABOUT HOW LONG IS A WOMAN'S FOREARM IS SHE IS 5'3" TALL?

$$y = 2\sqrt{x+4}$$



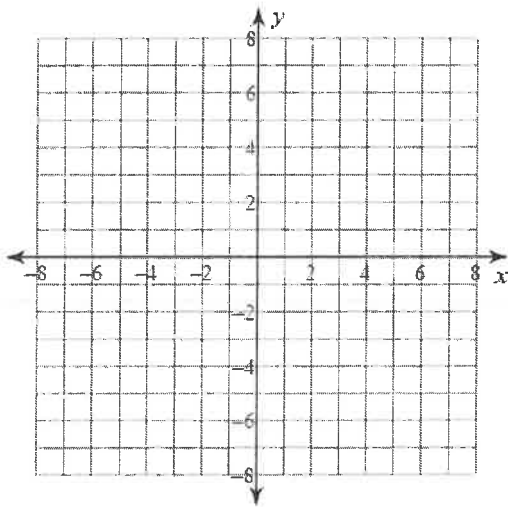


ALWAYS, SOMETIMES, OR NEVER

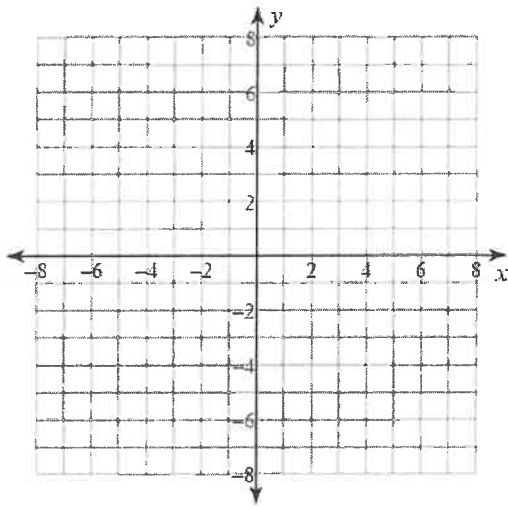
- THE SOLUTION OF A SYSTEM OF EQUATIONS WITH A LINEAR AND AN QUADRATIC FUNCTION IS TWO POINTS.

- THE PARENT FUNCTION OF THE INVERSE VARIATION FUNCTION LIES IN QUADRANTS 1 AND 4.

$$y = \frac{1}{2}\sqrt{x+6} + 3$$



$$f(x) = -\frac{1}{x+3} - 3$$



ALWAYS, SOMETIMES, OR NEVER

- EVERY GRAPH THAT PASSES THROUGH  $(0,0)$  IS A SQUARE  
ROOT FUNCTION.

- INVERSE VARIATION FUNCTIONS CAN GO THROUGH  $(0,0)$

SOLVE THE SYSTEM

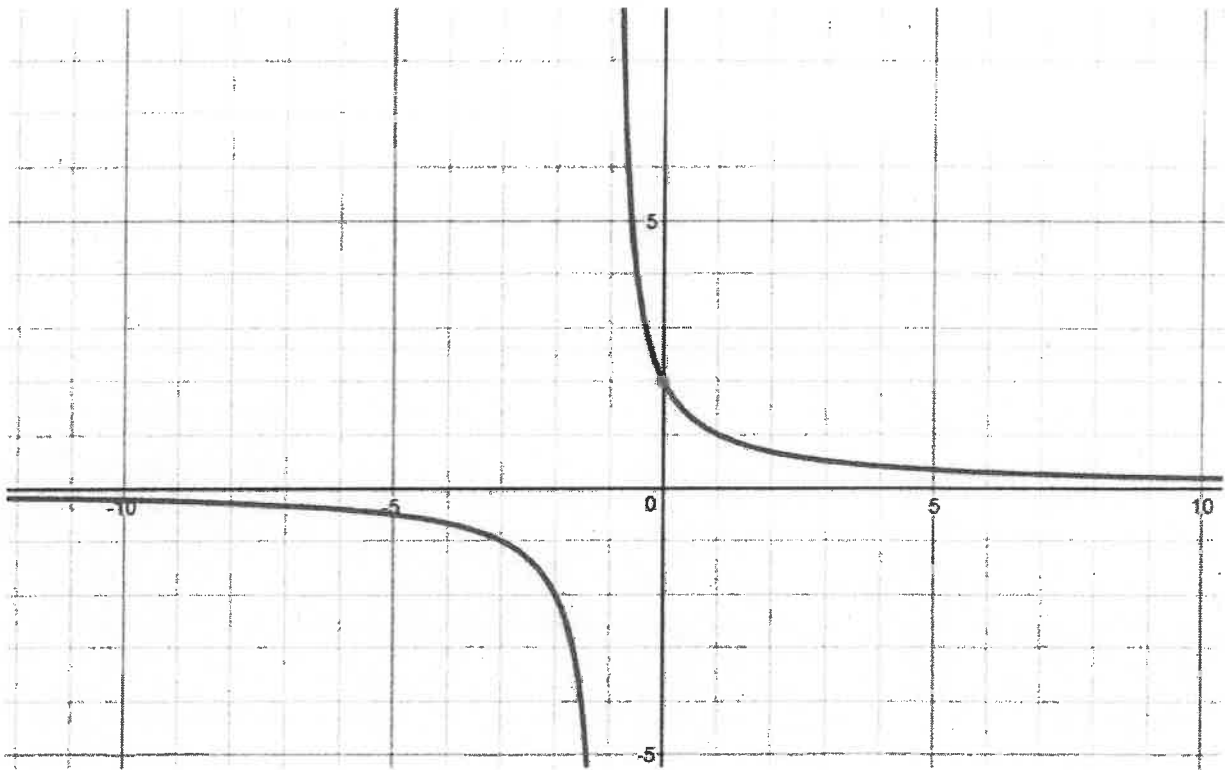
$$F(x) = 2x - 1$$

$$G(x) = \sqrt{x + 1}$$



$$\sqrt{-9 - 2n} = \sqrt{2n + 27}$$

$$x + 2 = \sqrt{4 - x}$$



ALWAYS, SOMETIMES, OR NEVER

-  $Y = KX$  IS AN INVERSE VARIATION

- THE DOMAIN OF AN INVERSE VARIATION FUNCTION IS  $(-\infty, \infty)$ .

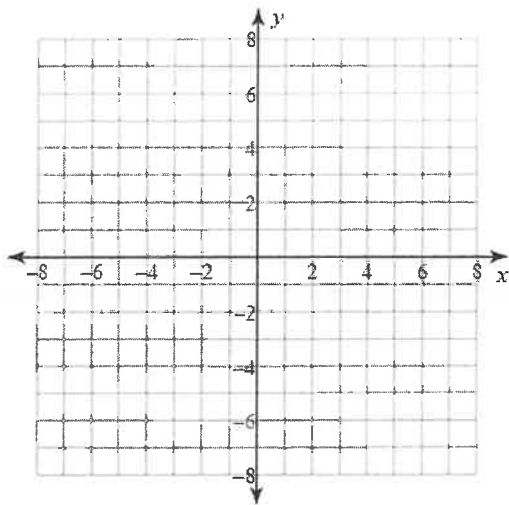
SOLVE THE SYSTEM

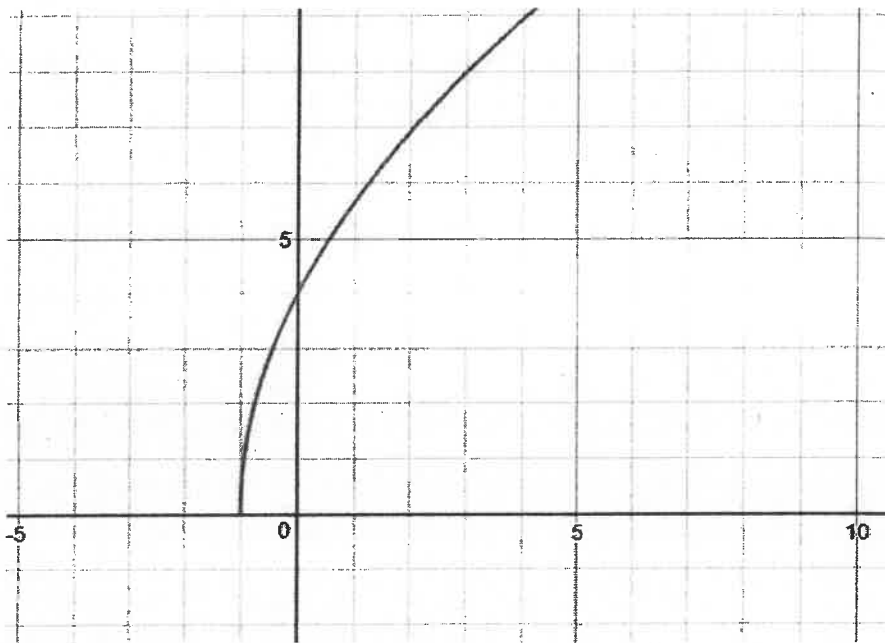
$$F(x) = x + 3$$

$$G(x) = \frac{4}{x}$$

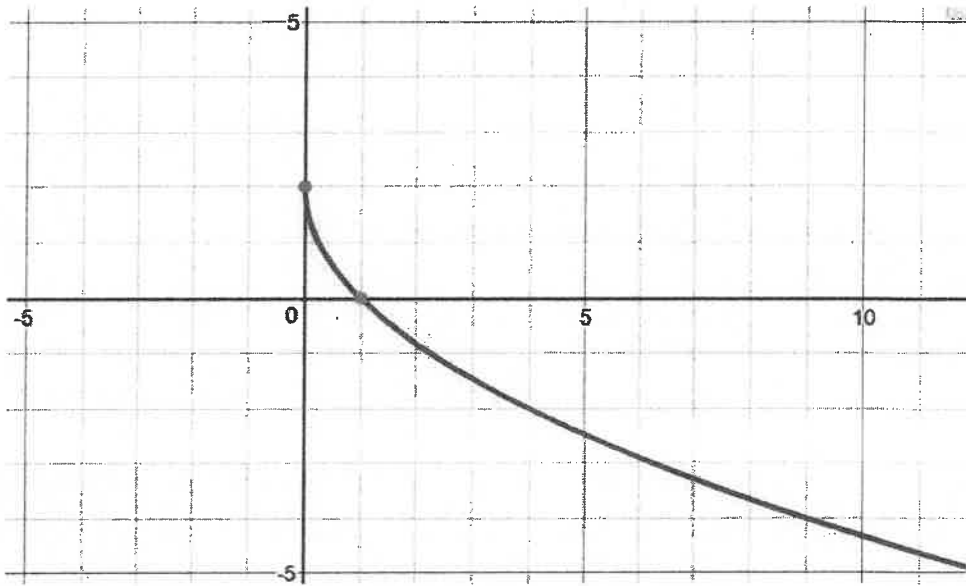
$$n - 7 = \sqrt{22 - 2n}$$

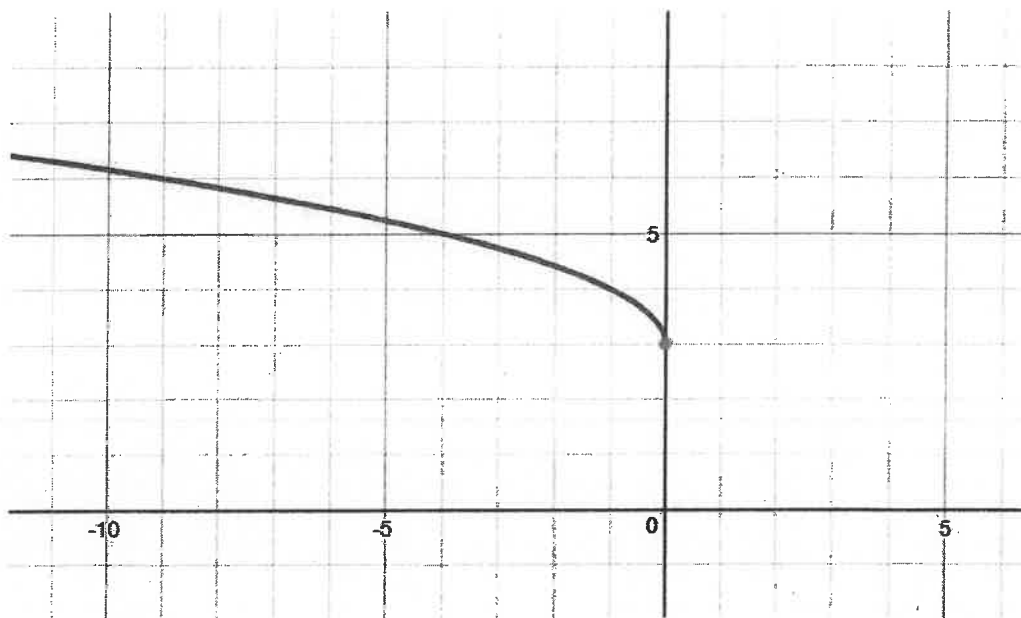
$$f(x) = \frac{3}{x+2} - 2$$





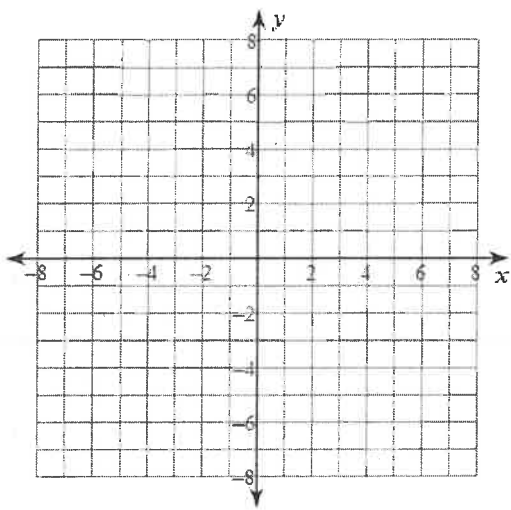






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$$y = 1 + \sqrt{x+1}$$



$$\sqrt{4a + 48} - 4 = a$$

$$\sqrt{14 - 5x} = x$$

ALWAYS, SOMETIMES, OR NEVER

- THE RANGE OF A SQUARE ROOT FUNCTION IS  $(-\infty, 0]$

- THE DOMAIN AND RANGE OF A LINEAR FUNCTION IS  $(-\infty, \infty)$

$$\frac{3}{x} = 2x + 1$$

IT TAKES FIVE PEOPLE THREE HOURS TO PAINT A ROOM. HOW MANY MORE MINUTES WOULD IT TAKE FOUR PEOPLE TO PAINT THE ROOM?



