

# Answer Key

Testname: M 1050 F13 FINAL

- 1) D
- 2) B
- 3) D
- 4) A
- 5) B
- 6) D
- 7) B
- 8) B
- 9) B
- 10) D

11)  $f^{-1}(x) = \frac{9x + 8}{x}$

12)  $\frac{x^2}{24} + \frac{y^2}{49} = 1$

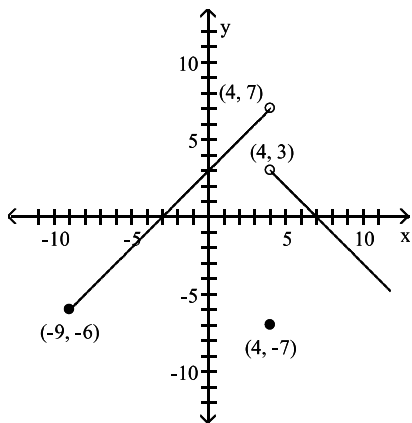
13)  $(-21, -1)$  or  $(4, \infty)$

14)  $\{3\}$

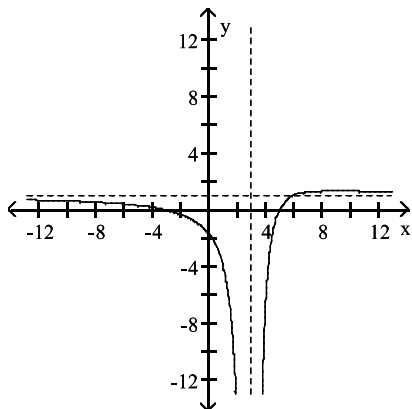
15)  $\{5\}$

16)  $f(x) = (x + 2)(x + 1)(x - 2i)(x + 2i)$

17)



18)

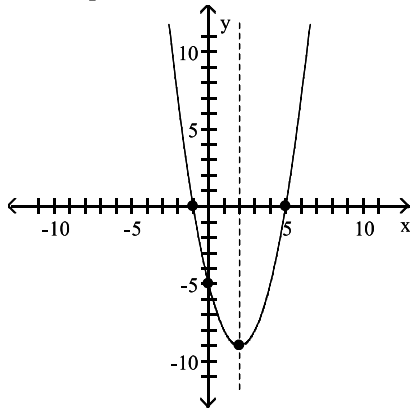


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19) vertex (2, -9)

intercepts (5, 0), (-1, 0), (0, -5)

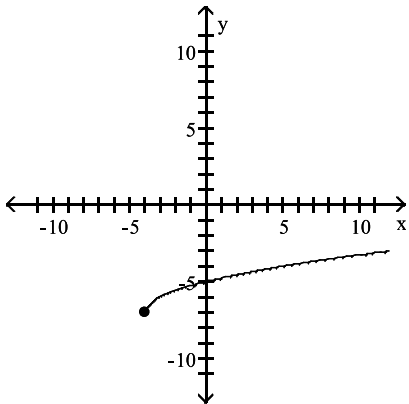


20) 9901 years

21) length: 32 feet, width: 16 feet

22)  $\frac{1}{x-6} + \frac{1}{x+1}$

23)



24)

$$\begin{bmatrix} -\frac{1}{5} & \frac{3}{10} \\ 0 & \frac{1}{4} \end{bmatrix}$$

25)  $x = -5, y = 3; (-5, 3)$