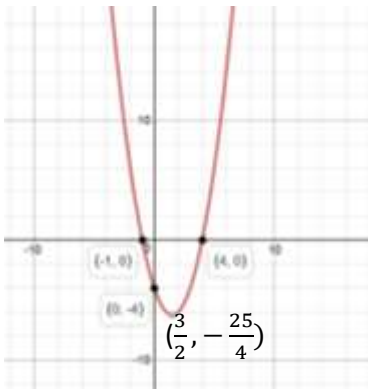


Math 1050 Final Exam Answer Key

Fall 2016

- $(\sqrt{3} - 2)x + 2x^{\frac{1}{2}} + x^{\frac{3}{2}} + y^{\frac{3}{2}}$
- $\frac{-3b^4}{a^2c^2}$
- 32
- 36
- $(-\infty, \infty)$
- $x \in \left\{-\frac{8}{3}, 4\right\}$
- The three angles are 20 degrees, 55 degrees and 105 degrees.
- $b = \frac{3c}{ac-6}$
- $(-\infty, 3) \cup (3, \infty)$
- $-\frac{4}{21}$
- $10x + 5h$
- $y = -\frac{1}{3}x - 5$
- $y = \pi$
- One leg is $2\sqrt{5}$ ft., the other is $4\sqrt{5}$ ft.
- $x \in \{3 + i, 3 - i\}$
- Vertex $\left(\frac{3}{2}, -\frac{25}{4}\right)$ opens up, y-intercept: (0,-4), x-intercepts: (-1,0) and (4,0)

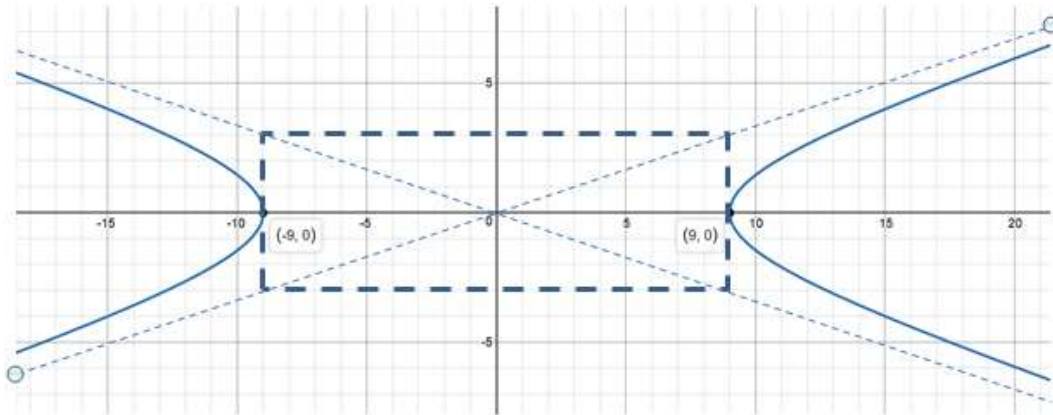


- $\frac{1}{x-3}$
- $x \in \{-1, 7\}$

Math 1050 Final Exam Answer Key

Fall 2016

19. $(-\infty, 0] \cup [\frac{3}{2}, 5]$
20. $(-3, 2) \cup (2, \infty)$
21. a.) Domain $(-\infty, -3] \cup (-1, 4) \cup [5, \infty)$
b.) Range $(-\infty, 2) \cup [3, \infty)$
c.) $f(-3) = 3$
d.) $x \in \{2, 5\}$
22. $x \in \{-8, 64\}$
23. a.) -3 b.) 2 c.) $\frac{1}{3}$
24. a.) 1.8 b.) 2.4 c.) 0.4
25. $x = -1$
26. Horizontal axis Hyperbola with center (0, 0), $a = 9$, $b = 3$



27. $\cos(3) < \tan(2\pi) < \sin(3) < \log_5(6)$
28. a.) $-\frac{\pi^2}{3}$ radians b.) 80°
29. a.) $\frac{7}{\sqrt{65}}$ b.) $\frac{4}{7}$
30. Rami was jogging 5 mph.