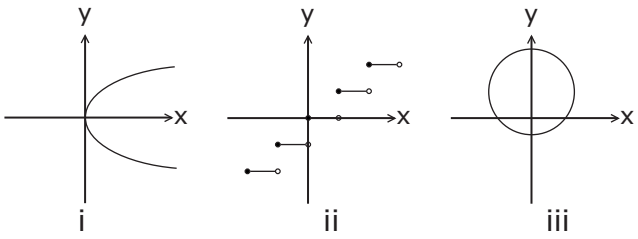
36.) Which of the following represent(s) functions of x ?



a) i only

b) ii only

c) iii only

d) i and iii

e) i , ii , and iii

37.) An equation of the circle with center $(-2, k)$ and radius 5 is

a) $\frac{x^2}{4} + \frac{x^2}{k^2} = 25$

b) $(x - 2)^2 + (y + k)^2 = 5$

c) $(x - 2)^2 + (y + k)^2 = 25$

d) $(x + 2)^2 + (y - k)^2 = 5$

e) $(x + 2)^2 + (y - k)^2 = 25$

38.) The solution set of $x^6 - 7x^3 + 12 = 0$ includes

a) 1

b) $\sqrt[3]{12}$

c) $\sqrt[6]{12}$

d) $\sqrt[3]{4}$

e) $\sqrt[3]{6}$

39.) When you solve the equation $x^3 - 3x^2 + 2x = 0$, how many roots are greater than $\frac{1}{2}$?

a) no root

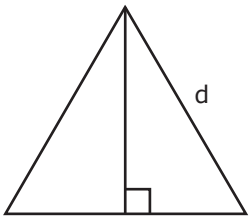
b) one root

c) two roots

d) three roots

e) all roots

40.) The area of an equilateral triangle with sides of length d is



a) $\frac{d^2}{2}$

b) $\frac{d^2}{4}$

c) $\frac{\sqrt{3}d^2}{8}$

d) $\frac{\sqrt{3}d^2}{4}$

e) $\frac{\sqrt{2}d^2}{4}$

41.) An equation for the circle of radius 1 with center at $(0, 1)$ is

a) $x^2 + y^2 - 2y = 0$

b) $x^2 + y^2 + 2y = 0$

c) $x^2 + y^2 - 2y = 2$

d) $x^2 + y^2 + 2y = 2$

e) $x^2 + y^2 = 0$