December 2015

60) For what real value of *x*, if any, is log (x+3) (x2 + 3) = 2 true?

**F.** -2

**G.** -1

**H.** 0

**J.** 1

**K.** There is no such value of *x*.

December 2016

54) Which of the following number line graphs represents all values in the domain of the function y = log10(x2 – 4x + 3)?

**F.** (picture)

**G.** (picture)

**H.** (picture)

**J.** (picture)

**K.** (picture)

June 2017

35) What is the value of log2 rad(8)?

**A.**

**B.**

**C.** rad(2)

**D.** 1

**E.** 3

53) Which of the following values is the *x*-coordinate of the point in the standard (*x*,*y*) coordinate plane where the graph of the line *y* = 7 intersects the graph of the function *y* = 1n(*x*2) + 3?

**A.** 6

**B.** *e* 4 + 2

**C.** 4*e* + 2

**D.** 1n(4) + 2

**E.** 1n(5) +3