



541-733-1749

1144 Gateway Loop, Suite 100

Springfield, OR 97477

OregonTutor@comcast.net

Are you ready for ACT math?

Put your skills to the test with these ACT-style questions!

- 1) Which of the following lines are perpendicular?
 - I) $y = \frac{1}{2}x + 4$
 - II) $y = 2x + 7$
 - III) $y = -2x + 5$
 - IV) $y = \frac{1}{2}x - 6$
 - A) I and II
 - B) IV and II
 - C) I and IV
 - D) I and III
 - E) II and IV
- 2) One person can paint a room in 6 hours. Another person can paint a room in 4 hours. How long does it take them to paint it together?
 - A) 2.4 hours
 - B) 5 hours
 - C) 4.9 hours
 - D) 10 hours
 - E) 3.5 hours
- 3) Bernadette wants to make a circular garden. She wants it to be able to fit a planter that is 10 feet long through the center, with a 1.5 foot wide path on either side. If she assumes the bottom left corner of the diagram of her yard (shown to the right) to be the origin of a Cartesian plane, what function models her garden?
 - A) $(x - 6.5)^2 + (y - 6.5)^2 = 42.25$
 - B) $(x + 6.5)^2 + (y + 6.5)^2 = 42.25$
 - C) $(x - 5)^2 + (y + 5)^2 = 25$
 - D) $(x - 1.5)^2 + (y - 5)^2 = 25$
 - E) $(x - 5)^2 + (y - 5)^2 = 25$

