7. A tutoring agency has two teachers.
Teacher A charges $75.00 for 3 hours of tutoring.
Teacher B's fees are represented in the table below.

Teacher B

Number of Hours	Fees (in dollars)
3	120
6	240
9	360

What is the difference, in dollars, between the rates per hour charged by the two teachers?
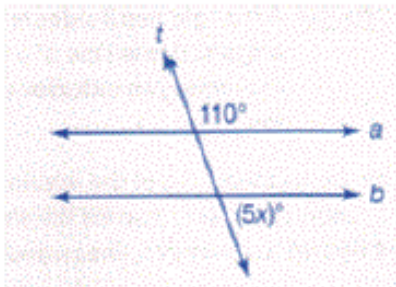
Show your work.

8. Which equation has no solution?

A $2a = 3a$

B $3x = \dfrac{1}{5}$

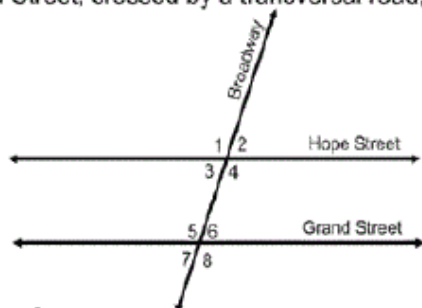**C** $6m + 4 = 2(3m + 2)$

D $5 + 4x = 3x + 2 + x$

10. Line $a \| $ line b. If they are cut by a transversal, line t, what is the value of x?

A 100
B 70
C 22
D 14

9. The accompanying diagram shows two parallel roads, Hope Street and Grand Street, crossed by a transversal road, Broadway.
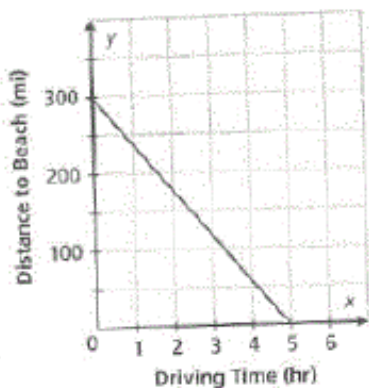

If m<1 = 110⁰, what is the measure of <7 ?

A 40⁰
B 70⁰
C 110⁰
D 180⁰

12. Kate is planning a trip to the beach. She used an estimated average speed to make a graph showing the progress she expects to make on her trip.

Part A: Write an equation in slope-intercept form that represents the function.

Answer: _____

Part B: What does the value of the slope represent in this context?

_____

_____

Part C: Is the slope positive or negative? What does the sign of the slope mean in this context?

_____

_____

Part D: Describe the meaning of the y-intercept.

_____

_____