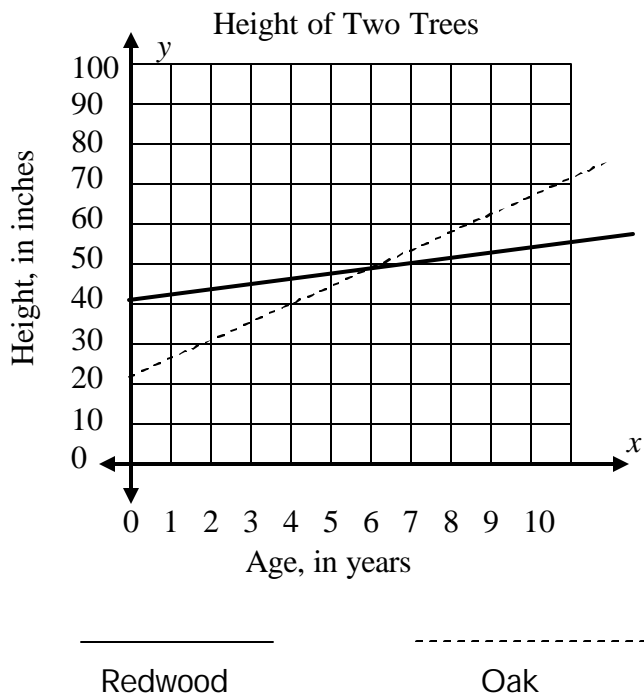


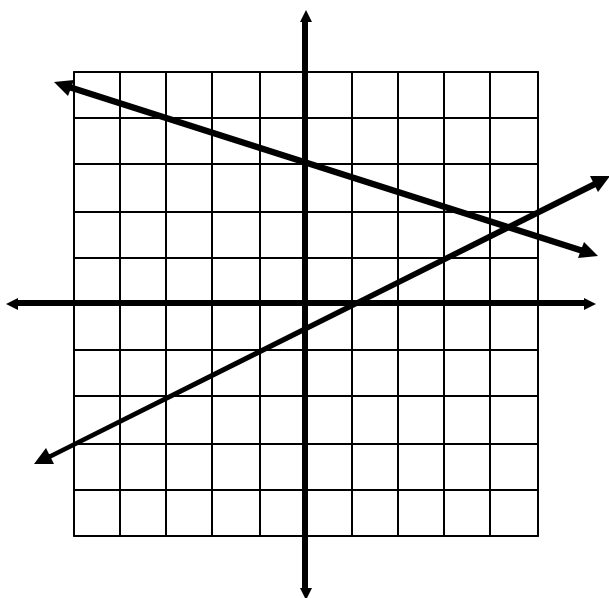
**Analyzing Graphs of Two Equations: Practice A**

1) The graph below shows the height of two trees.



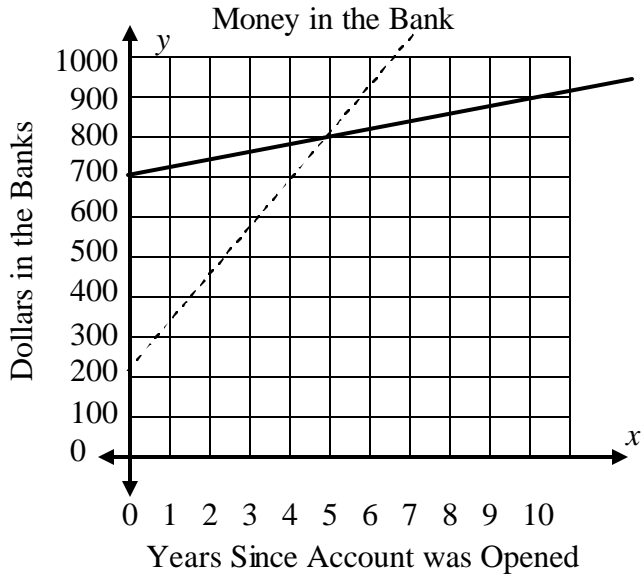
- a) Which tree was taller when it was planted?
- b) At what year are the trees the same height?
- c) Which tree is growing faster?
- d) About how tall is the Redwood at age 11?
- e) About how tall is the Oak at age 11?

2) Choose which systems of equations best represents the graph shown below.



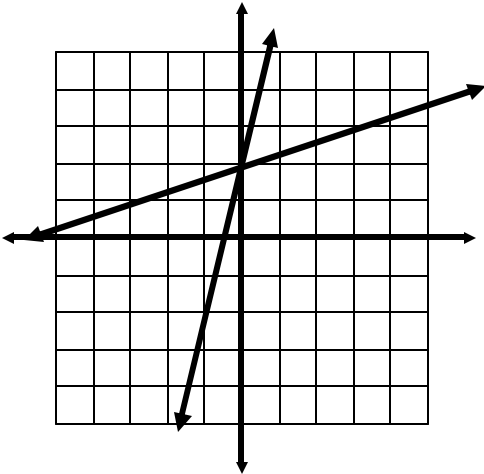
- A)  $y = -\frac{1}{2}x + \frac{1}{2}$   
 $y = -\frac{1}{3}x - 3$
- B)  $y = \frac{2}{1}x + 2$   
 $y = -\frac{3}{1}x + 3$
- C)  $y = -\frac{1}{2}x - \frac{1}{2}$   
 $y = \frac{1}{3}x + 3$
- D)  $y = \frac{1}{2}x - \frac{1}{2}$   
 $y = -\frac{1}{3}x + 3$

3) Look at the graph below about money in the bank.

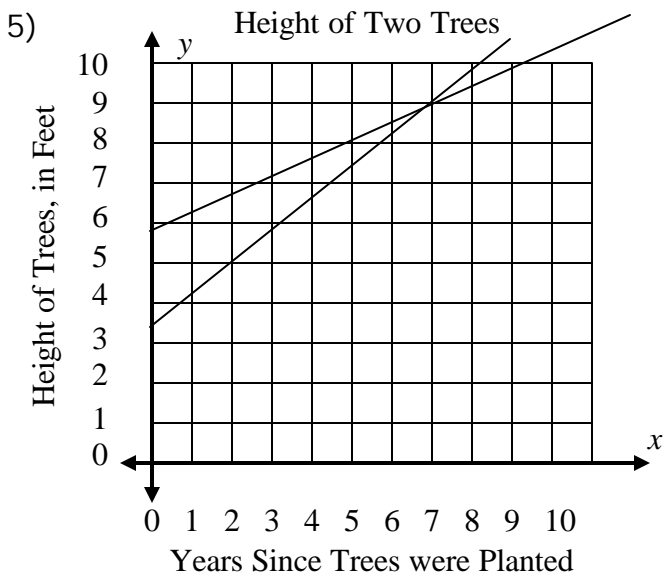


- a) After how many years were the accounts equal?
- b) How much did the accounts start with?
- c) Which account has more after 3 years?
- d) Which account has more after 8 years?

4) Sometimes we will be given a graph without labels and be asked to pick the right system...



- A)  $y = \frac{1}{4}x + 2$   
 $y = 3x + 2$
- B)  $y = 4x + 2$   
 $y = \frac{1}{3}x + 2$
- C)  $y = -4x + 2$   
 $y = -\frac{3}{1}x + 2$
- D)  $y = \frac{1}{4}x - 2$   
 $y = 3x - 2$



After how many years were the trees the same height?