



Line 5 is tangent line with slope 2.

$$\text{Slope of Line 4} = \frac{f(1)-f(3/4)}{1-\frac{3}{4}} = 7/4$$

$$\text{Slope of Line 3} = \frac{f(1)-f(1/2)}{1-\frac{1}{2}} = 3/2$$

$$\text{Slope of Line 2} = \frac{f(1)-f(1/4)}{1-\frac{1}{4}} = 5/4$$

$$\text{Slope of Line 1} = \frac{f(1)-f(0)}{1-0} = 1$$

$x$