

1) Find the critical numbers of the function  $f(x) = 3x^{\frac{1}{3}}(x - 8)$ . Over which intervals is the graph of the function increasing?

2) The three vectors in the x-y plane below represent forces. Draw in the horizontal and vertical components of each of the three vectors into the diagram on the left. Put into the x-y plane on the right the vector that represents the combined effect of the three forces. Specify the endpoint of the resultant.

