24. From Eq. 7-32, we see that the "area" in the graph is equivalent to the work done. Finding that area (in terms of rectangular [length×width] and triangular  $[\frac{1}{2}base \times height]$  areas) we obtain

$$W = W_{0 < x < 2} + W_{2 < x < 4} + W_{4 < x < 6} + W_{6 < x < 8}$$
  
= 20 + 10 + 0 - 5 = 25 J.