











39°-36° 75 · 3 (39 225







Factor each polynomial by grouping. **b.** $x^2 + y + x + xy$ **a.** $x^3 + 3x^2 + 2x + 6$





Solve.) $2x^3 + 8x^2 = 10x$ $3x^5 - 6x^4 - 45x^3 = 0$





A terrarium in the shape of a rectangular prism has a volume of 4,608 cubic inches. Its length is more than 10 inches. The dimensions of the terrarium in terms of its width are shown. Find the length, width, and height of the terrarium.



9. A box in the shape of a rectangular prism has a volume of 72 cubic feet. The box has a length of *x* feet, a width of (x - 1) feet, and a height of (x + 9) feet. Find the dimensions of the box.