Factoring Quiz

1) x2 - y2 2) x2 - 3x - 28 3) x2 + 6x + 9

4) (y - 1)2 - (x + 2)2 5) 3x2 + 8x + 4 6) 7x4 + 41x2 + 30

7) (x - 2)2 + 12x(x - 2) + 20 8) 6x3 - 9x2 - 12 + 8x

The length of Bob’s rectangular garden was two times the width *w.* Bob increased the length and width of the garden so that the area of the new garden is (2w2 + 7w + 6) square yards. By how much did Bob increase the length and the width?