

Factorizations Ex 7.5 Q16

Answer:

$$x^3 - 144x$$

= $x(x^2 - 144)$
= $x(x^2 - 12^2)$
= $x(x - 12)(x + 12)$

Factorizations Ex 7.5 Q17

Answer:

Factorizations Ex 7.5 Q18

Answer:

$$9(a-b)^{2} - 100(x-y)^{2}$$

$$= [3(a-b)]^{2} - [10(x-y)]^{2}$$

$$= [3(a-b) - 10(x-y)][3(a-b) + 10(x-y)]$$

$$= (3a-3b-10x+10y)(3a-3b+10x-10y)$$

Factorizations Ex 7.5 Q19

Answer:

$$(3+2a)^{2}-25a^{2}$$

$$= (3+2a)^{2}-(5a)^{2}$$

$$= [(3+2a)-5a][(3+2a)+5a]$$

$$= (3+2a-5a)(3+2a+5a)$$

$$= (3-3a)(3+7a)$$

$$= 3(1-a)(3+7a)$$

Factorizations Ex 7.5 Q20

Answer:

$$(x+y)^{2} - (a-b)^{2}$$

$$= [(x+y) - (a-b)][(x+y) + (a-b)]$$

$$= (x+y-a+b)(x+y+a-b)$$

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