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$$b) i) 8P^3Q^2 - 4P^2Q^3 + 2P^3Q$$

$$8P^2PQQ - 4P^2QQ^2 + 2P^2PQ$$

$$= 4 \cdot 2P^2PQQ + 2 \cdot 2P^2QQ^2 + 2P^2PQ$$

$$= 2P^2Q(4PQ - 2Q^2 + P)$$

$$ii) x^2 - y^2$$

$$(x+y)(x-y)$$

$$c) i) x^2 + 12x + 20 = 0$$

$$x^2 + 12x + 20 = 0$$

$$ii) 2x^2 + x - 15 = 0$$