

a)
$$x(x+4)^2(2x-5)^3 = 0$$
 b) $9x^4 + 2x^2 + 4 = 3 - 4x^2$

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c)
$$7x^5 - 30x^3 + 8x = 0$$
 d) $100x^4 = 64x^2$

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e)
$$(5x+4)(2x^2+x-5)=0$$
 f) $2x^3-11=x^3+16$

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$$2x^3 - 11 = x^3 + 16$$

g)
$$4x^3 - 12x^2 = 27 - 9x$$
 h) $x^6 + 64 = 0$

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Write a polynomia equation in standard form with integral coefficients given the roots.

a)
$$0,-3,5$$

b)
$$2, \sqrt{5}, -\sqrt{5}$$

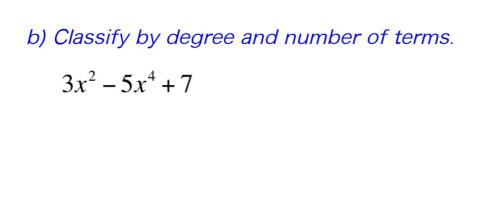
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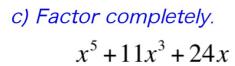
c)
$$1,2i,-2i$$



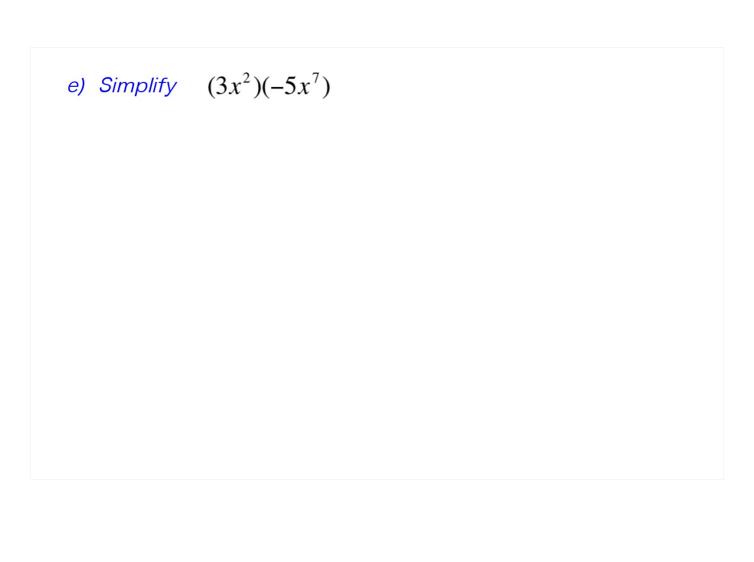
a) Perform the indicated operation. Write in standard form.

$$(5-2x^3-4x+x^2)-(5x^2-8+2x)$$





d) Factor completely. $x^6 + 3x^3 - 4$



f) Simplify $\frac{2x^2}{\left(4x^{-3}\right)^2}$