

1) Find the value of  $p^2 + m^2n^2$ , if  $(-mx - 3x^5 + mx^3)(n + 2x^2) = -6x^7 - px$ .

2) Determine the values of  $g$  and  $h$ , if  $(3x + g)(2g - 6x) = -(h + 10)x^2 + h$ .

3) If  $cx^3(bx^2 - d)$  and  $d$ .

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values of  $b, c$

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4) If  $2x^4((s + t)x$

values of  $s$  and  $t$ .

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5) If  $(3x^2 + x^3 - 2x)(-4x^3 - 6x^4 + 2x^5) = -2ax^6 + 8x^4 + 2x^8$ , what is the value of  $a$ ?

**Unknowns**

1) Find the value of  $p^2 + m^2n^2$ , if  $(-mx - 3x^5 + mx^3)(n + 2x^2) = -6x^7 - px$ .

**$m = 3, n = 2, p = 6; p^2 + m^2n^2 = 72$**

2) Determine the values of  $g$  and  $h$ , if  $(3x + g)(2g - 6x) = -(h + 10)x^2 + h$ .

**$g = 2, h = 8$**

3) If  $cx^3(bx^2 - d)$  and  $d$ .

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values of  $b, c$

**$b = 2, c = 5,$**

4) If  $2x^4((s + t)x$

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values of  $s$  and  $t$ .

**$s = 1, t = 5$**

5) If  $(3x^2 + x^3 - 2x)(-4x^3 - 6x^4 + 2x^5) = -2ax^6 + 8x^4 + 2x^8$ , what is the value of  $a$ ?

**$a = 13$**

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