

Morgan Joseph - Science

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Introduction to Math and Science (Test 2)

1.

(i) x^{17}

(ii) $16x^{16} \times 3x^2 = 48x^{18}$

(iii) $13 \frac{x^{18}}{x^8} = x^{10}$

(iv)

$6x$

(v) x^8

2.

(i) $7x - 1 = 5x + 4 \quad | \quad 2x = 5$

$| \quad x = \frac{5}{2} \quad x = 2.5$

(ii) $30x + 20 = -14x - 7 \quad | \quad 16x = -27$

$| \quad x = \frac{-27}{16} \quad x = -1.6875$

(iii) $3(x-1) = 4(2x+1) \quad | \quad 3x - 3 = 8x + 4$

$| \quad -5x = 11 \quad | \quad x = \frac{11}{-5} \quad x = -2.2$

(iv) $x^2 + 4 = x^2 + 5x + 3x + 15$

$x^2 + 4 = x^2 + 8x + 15 \quad | \quad -11 = 8x$

$x = \frac{-11}{8} \quad | \quad x = -1.375$