

Answers

1

(1) $2x$

(2) $1 - 3x^2$

(3) $2x + 3$

2

(4) $4x$

(5) $-2x^{-2}$

(6) $-8x^{-3} - \frac{\pi}{2}$

3

(7) $20x^9 - 8x$

(8) $\frac{3}{2}x^{-\frac{1}{2}}$

(9) $\sqrt{3}$

4

(10) $x^3 + 1$

(11) $2x + 1$

(12) $2x$

5

(13) $15x^2 + 15x^{-4}$

(14) $3 - 2x$

(15) $4x - 5$

6

(16) $1 + x^{-2}$

(17) $10x^{\frac{3}{2}}$

(18) 0

7

(19) $-\frac{1}{3}x^{-2}$

(20) $x - 3$

(21) 0

8

(22) $4x^3 + 4x$

(23) $1000x^{999}$

(24) $-1000x^{-1001}$

9

(25) $\frac{2x}{\ln(2)}$

(26) $\frac{5}{2\sqrt{x}}$

(27) 0

10

(28) $1 + x^{-2}$

(29) $-4x^{-\frac{3}{2}} - 3$

(30) $\frac{7}{10}x^{-\frac{1}{2}} + \frac{9}{10}x^{\frac{1}{2}}$

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37, 49, 77, 93

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29, 37, 11.