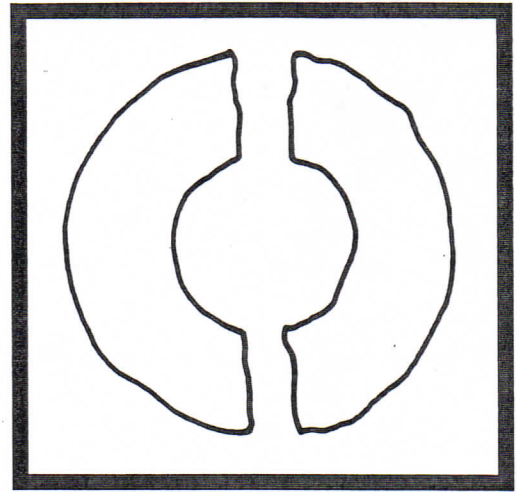


Law of the Donut

What Famous Rule of Donuts Is Illustrated by This Picture?



For the first exercise in each set, find the area of the rectangle. For all other exercises, multiply using the distributive property. Write the letter of the exercise in the box that contains the number of the answer.

S

$$\begin{array}{|c|} \hline n + 5 \\ \hline \end{array} \begin{array}{|c|} \hline n + 2 \\ \hline \end{array}$$

A $(n + 4)(n + 9)$

E $(n - 3)(n + 10)$

W $(n - 6)(n - 5)$

O $(2n + 2)(3n + 8)$

A $(7n + 5)(4n - 1)$

Answers

16 $n^2 + 7n + 36$

22 $n^2 + 7n - 30$

7 $28n^2 - 11n - 5$

10 $n^2 + 7n + 10$

2 $n^2 - 11n + 30$

13 $28n^2 + 13n - 5$

6 $n^2 + 13n + 36$

14 $n^2 + 22n + 30$

20 $6n^2 + 22n + 16$

E

$$\begin{array}{|c|} \hline 5x + 1 \\ \hline \end{array} \begin{array}{|c|} \hline 3x + 2 \\ \hline \end{array}$$

A $(9x - 2)(4x - 4)$

L $(6x + 1)(3x - 2)$

E $(5x - 4)(2x + 7)$

O $(2x + 5y)(x + 6y)$

H $(4x - y)(9x - 4y)$

Answers

3 $2x^2 + 17xy + 30y^2$

18 $36x^2 - 20xy + 4y^2$

7 $18x^2 - 9x - 2$

19 $36x^2 - 25xy + 4y^2$

4 $18x^2 + 27x - 2$

15 $10x^2 + 27x - 28$

9 $15x^2 + 13x + 2$

8 $10x^2 - 44x - 28$

17 $36x^2 - 44x + 8$

M

$$\begin{array}{|c|} \hline t^2 + 4t - 3 \\ \hline \end{array} \begin{array}{|c|} \hline t + 2 \\ \hline \end{array}$$

T $(2t - 3)(3t^2 + 2t + 5)$

K $(4t + 1)(2t^2 - 7t + 2)$

H $(3t - 4)(2t^2 - t - 5)$

L $(8t - 3)(t^2 + 2t + 9)$

V $(5t + 2)(4t^2 - 3t - 10)$

Answers

11 $8t^3 - 26t^2 + 60t - 27$

21 $8t^3 + 13t^2 + 66t - 27$

1 $6t^3 - 5t^2 + 4t - 15$

16 $20t^3 + 13t^2 - 50t - 20$

12 $t^3 + 6t^2 + 5t - 6$

8 $20t^3 - 7t^2 - 56t - 20$

4 $6t^3 - 5t^2 + 8t + 20$

14 $8t^3 - 26t^2 + t + 2$

5 $6t^3 - 11t^2 - 11t + 20$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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