

T3 Final Exam Review #3

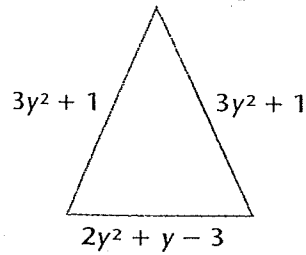
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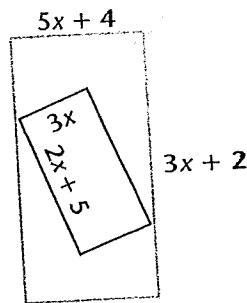
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Final Exam Review #3- Chapter 11-Part A and B

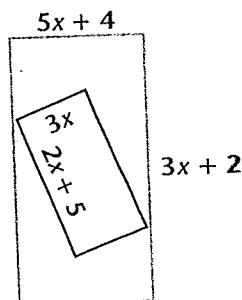
- 1.) Find the perimeter of the triangle.



- 2.) Find the polynomial expression that represents the perimeter of the large rectangle.



- 3.) Find the polynomial expression that represents the perimeter of the smaller rectangle.



Use the distributive property to find each product.

4.) $4(x + 2)$

5.) $6(2x + 7)$

6.) $5(y + 10)$

7.) $3(m + 8)$

8.) $x(x + 2)$

9.) $2y(y - 4)$

Write each polynomial in factored form.

10.) $3x^2 + 6$

11.) $5x^2 - 20$

12.) $y^2 - y^3$

Use the FOIL method to find each product.

13.) $(y + 5)(y + 3)$

14.) $(w + 9)(w + 1)$

15.) $(b - 7)(b + 3)$

16.) $(3y - 2)(y - 1)$

17.) $(5p + 3)(p + 1)$

18.) $(2q - 1)(2q + 1)$

Identify each polynomial as prime or composite.

19.) $4x^2 - 16$

20.) $r^2 + 10$

21.) $n^2 + 4$

Factor each polynomial by removing the GCF.

22.) $2x^2 - 4$

23.) $5n^2 - 10$

24.) $3x^2 + 6x$

25.) $x^9 - x^2$

Factor each polynomial by removing the GCF.

1.) $4a^8 - 20a^6 + 8a^4$

2.) $4x^2 + 2x - 6$

3.) $7x^2 - 28x - 14$

4.) $27y^3 + 18y^2 - 81y$

Factor each polynomial completely.

5.) $x^2 - 4$

6.) $y^2 - 100$

Write each trinomial as a product of its factors. Use factoring patterns to assist you in your work.

7.) $a^2 - 2a - 35$

8.) $p^2 + 4p - 12$

9.) $y^2 - 5y + 6$

10.) $b^2 - 5b - 24$

Simplify. Express each answer in standard form.

11.) $(3x^2 - 4x + 2) + (2x^2 + 3x - 2)$

12.) $(c^3 + 4c^2 + 6) + (c^2 + 3c - 5)$

13.) $(8d^2 - d) - (2d^2 + 4d - 5)$

14.) $(w^3 - 3w + 9) - (8w^3)$

15.) $(10m^2 - m + 4) - (2m^2 + m)$

16.) $(7c + 3) + (3c^2 - 7c - 2)$

Write each polynomial in factored form.

17.) $6x^2 + 8$

18.) $5c^3 - 25c$

19.) $n^4 + 2n^3$

20.) $z^4 + 5z^2$

Factor each polynomial by removing the GCF.

21.) $16x^3 + 8x^2$

22.) $9y^7 + 6y^3 + 3y$

23.) $b^6 + 15b^3 - 30b^2$

24.) $24m^9 - 16m^4 + 8m^3$

25.) $60a^4 + 20a^3 + 10a^2$

26.) $100p^8 - 50p^6 - 25p$

Factor each Polynomial.

27.) $a^2 + 6a + 9$

28.) $w^2 - 16w + 64$

29.) $y^2 - 81$

30.) $n^2 - 2n - 24$