

Name: _____

Date _____

Topic: Division of Rational (Fractional) Expressions- Worksheet 1

Divide the fractional expression:

1. $24/2x \div 5/x^2$

2. $6x^3/3 \div 12x/3x$

3. $5u^2v/10 \div 6uv^2/2$

4. $(y^2+3y)/(y-4) \div (y^2+3y)/(y^2-16)$

5. $(15/x^2) \div (30/x^6)$

6. $(x^{10}/25) \div (x^8/50)$

7. $4u^3/v^2 \div 8u^2/v^2$

8. $(x^2-9)/(3x-6) \div (x^2-9)/(x-2)$

9. $x^2/25 \div 5x/10$

10. $(u-v)9x^2 \div (u-v)3x^2$



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Topic : Division of Rational (Fractional) Expressions- Worksheet 2

Divide the fractional expression:

1. $26/2x \div 13/10x^2$

2. $3x^3/6 \div 18x/3x$

3. $4x^2y/12 \div 8xy^2/6$

4. $(y^2+5y)/(y+5) \div (y^2+5y)/(y^2-25)$

5. $(8/4y^2) \div (15/10y^6)$

6. $(5a^5/60) \div (25a^5/50)$

7. $3a^3/b^2 \div 6a^2/b^2$

8. $(x^2-2)/(3x-9) \div (x^2-2)/(x-3)$

9. $5x^2/30 \div 5x/20$

10. $(x-y)5x^2 \div (x-y)10x^2$



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Topic : Division of Rational (Fractional) Expressions- Worksheet 3

Divide the fractional expression:

1. $20x^3/2x \div 4x/10x^2$

2. $3x^3/6 \div 18x/3x$

3. $10x^2y/6 \div 8xy^2/48$

4. $(y^2+5y)/(y^2-4y+4) \div (y^2+5y)/(y-2)^2$

5. $(14/4x^3) \div (7/10x^6)$

6. $(7q^5/5q^2) \div (21q^7/50q^5)$

7. $8w^2/10r^4 \div 2w^2/5r^2$

8. $(x^2-6)/(x^2-25) \div (x^2-6)/(x-5)$

9. $4x^2/14y \div 16x/28y$

10. $(a-b)49x^2 \div (a-b)7x^6$



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Topic : Division of Rational (Fractional) Expressions- Worksheet 4

Divide the fractional expression:

1. $11x^3/5x^3 \div 33x/10x^2$

2. $2x^2/6x^3 \div 24x/3x$

3. $12u^2v/3 \div 4uv^2/6$

4. $(10x+5y)/(y^2-3y+9) \div 5(2x+y)/(y-3)^2$

5. $(39x^3/4y^3) \div (13x^5/24y^6)$

6. $(8a^2/3a^2) \div (24a^4/15a^5)$

7. $16w^2/2r^4 \div 2w^2/10r^2$

8. $(x^2-2)/(x^2-16) \div (x^2-2)/(x+4)$

9. $6x^2/9y \div 12x/18y$

10. $(3a-2b)49y^2 \div (3a-2b)7y^6$



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Topic: Division of Rational (Fractional) Expressions- Worksheet 5

Divide the fractional expression:

1. $12v^5/6u^3 \div 96v/12u^2$

2. $8x^2/9x^3 \div 16x/27x^5$

3. $15a^2b/6a^8b \div 3ab^2/36b^3$

4. $(2x+5y)/(y^2-9) \div (12x+30y)/(y-3)$

5. $(17x^3/9y^3) \div (34x^5/81y^6)$

6. $(30a^2/45a^2) \div (5a^4/15a^5)$

7. $16w^2/9r^4 \div 64w^2/36r^2$

8. $(x^2-2)/(x^2-16) \div (x^2-2)/(x+4)$

9. $6x^2/5y \div 12x/y$

10. $1/(x-y)144y^2 \div 1/(x-y)12y^6$

