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62.  $|3, 11, 13, 7, 10|$ 
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$$\frac{1}{1} \cdot \int \frac{dx}{a^{2} - x^{2}} = \frac{1}{2a} \left( \int \frac{dy}{a - x} + \int \frac{dy}{a + x} \right) = \frac{1}{2a} \left( |\ln |a - x| + |\ln |a + x| \right) + C$$

$$\frac{1}{a^{2} - x^{2}} = \frac{A}{a - x} + \frac{3}{a + x}$$

$$A(a_{1} + x) + 3(a - x) = 1$$

$$A(a_{1} + x) + 3(a - x) = 1$$

$$A(A + 3) = 1 = 3 \quad A = B = \frac{1}{2a}$$

$$x(A - B) = 0 = 3 \quad A = B$$

$$10 \cdot \int \frac{x \, dx}{3x^{2} + 8x - 3} = \frac{1}{10} \int \frac{dx}{3x - 1} + \frac{3}{10} \int \frac{dx}{x + 3} = \frac{1}{10} \ln |3x - 1| + \frac{2}{10} \ln |x + 3| + C$$

$$3x^{2} + 8x - 3 = (3x - 1)(x + 3)$$

$$\frac{x}{3x^{2} + 8x - 3} = \frac{A}{3x - 1} + \frac{3}{3x - 1}$$

$$A(x + 3) + B(3x - 1) = x$$

$$A(x + 3) + B(3x - 1) = x$$

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$$A(x + 3) + B(3x - 1) = x$$

$$A(x + 3) + B(3x - 1) = x$$

$$A(x + 3) + B(3x - 1) = x$$

$$A(x + 3) + B(3x$$

$$x^2+x$$
  $x$   $x+1$   
 $A(x+1)$   $+Bx$  =  $x-2$   
 $A+B=1$   $-3$   $B=3$ 

13. 
$$\int \frac{dx}{1-6x+9x^2} = \int \frac{dx}{(3x-1)^2} = \frac{1}{3} \frac{-1}{(3x-1)} + C$$

$$v = .3x - 1$$
  $\int \frac{dv}{v^2} = -\frac{1}{v} + C$ 

6.5. 1,10,15, 19, .22

1. 
$$\int_{2}^{\infty} \frac{dx}{(x-i)^{3}} = \int_{0}^{\infty} \frac{dv}{v^{3}} = \lim_{a \to +\infty} \int_{0}^{\infty} \frac{dv}{v^{3}} = \lim_{a \to +\infty} \left[ \frac{-i}{2\dot{v}^{2}} \right]_{i}^{a} = \frac{1}{2} - \lim_{a \to +\infty} \frac{1}{2\dot{a}^{2}}$$

$$= \frac{1}{2}$$

$$|x-2-y| = 1$$

10. 
$$\int_{A}^{\infty} \frac{x}{c} dx = \lim_{A \to \infty} \int_{A}^{\infty} \frac{x}{c} dx = \lim_{A \to \infty} \left[ \left( -xc^{\times} \right)_{+} + \int_{C}^{\infty} dx \right].$$

$$v = x \to Av = dx$$

$$dv = e^{-x}dx \to v = -e^{-x}$$

$$= \lim_{A \to \infty} \left[ \left( -xc^{\times} \right)_{+} - c^{\times} \right]$$

$$= \lim_{A \to \infty} \left( ac^{-x} - e^{-x} \right) = 1$$

$$(ac^{-x} - e^{-x}) = 1$$