



1.1.2)

1.15)

1.19)











































$$\frac{1}{x^2} = x^{-2} \Rightarrow \frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$$

$$\frac{1}{x^3} = x^{-3} \Rightarrow \frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$$

$$\frac{1}{x^4} = x^{-4} \Rightarrow \frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$$

(6.67.1)

$$\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$$

$$\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$$

$$\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$$

(6.67.2)

$$\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$$

$$\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$$

$$\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$$

(6.67.3)

$$\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$$

$$\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$$

$$\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$$

(6.67.4)

$$\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$$

$$\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$$

$$\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$$

$$\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$$

$$\frac{d}{dx} \frac{1}{x^9} = -\frac{9}{x^{10}}$$









$\frac{1}{2} - \frac{1}{3} = \frac{1}{6}$   
 $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$   
 $\frac{1}{5} - \frac{1}{10} = \frac{1}{10}$   
 $\frac{1}{6} + \frac{1}{3} = \frac{1}{2}$   
 $\frac{1}{8} - \frac{1}{4} = -\frac{1}{8}$   
 $\frac{1}{9} + \frac{1}{9} = \frac{2}{9}$   
 $\frac{1}{12} - \frac{1}{6} = -\frac{1}{12}$   
 $\frac{1}{15} + \frac{1}{3} = \frac{4}{15}$   
 $\frac{1}{18} - \frac{1}{9} = -\frac{1}{18}$   
 $\frac{1}{20} + \frac{1}{4} = \frac{3}{10}$   
 $\frac{1}{24} - \frac{1}{8} = -\frac{1}{24}$   
 $\frac{1}{30} + \frac{1}{6} = \frac{11}{30}$   
 $\frac{1}{36} - \frac{1}{12} = -\frac{1}{36}$   
 $\frac{1}{40} + \frac{1}{5} = \frac{9}{40}$   
 $\frac{1}{45} - \frac{1}{9} = -\frac{8}{45}$   
 $\frac{1}{54} + \frac{1}{18} = \frac{2}{27}$   
 $\frac{1}{60} - \frac{1}{15} = -\frac{1}{20}$   
 $\frac{1}{72} + \frac{1}{24} = \frac{1}{18}$   
 $\frac{1}{84} - \frac{1}{21} = -\frac{1}{28}$   
 $\frac{1}{90} + \frac{1}{30} = \frac{2}{15}$   
 $\frac{1}{108} - \frac{1}{27} = -\frac{1}{36}$   
 $\frac{1}{120} + \frac{1}{40} = \frac{1}{30}$   
 $\frac{1}{144} - \frac{1}{36} = -\frac{1}{72}$   
 $\frac{1}{168} + \frac{1}{42} = \frac{1}{24}$   
 $\frac{1}{180} - \frac{1}{45} = -\frac{1}{36}$   
 $\frac{1}{200} + \frac{1}{50} = \frac{1}{40}$   
 $\frac{1}{225} - \frac{1}{45} = -\frac{2}{45}$   
 $\frac{1}{240} + \frac{1}{60} = \frac{1}{40}$   
 $\frac{1}{270} - \frac{1}{54} = -\frac{1}{54}$   
 $\frac{1}{300} + \frac{1}{75} = \frac{1}{60}$   
 $\frac{1}{324} - \frac{1}{81} = -\frac{1}{108}$   
 $\frac{1}{350} + \frac{1}{100} = \frac{2}{70}$   
 $\frac{1}{360} - \frac{1}{90} = -\frac{1}{90}$   
 $\frac{1}{396} + \frac{1}{117} = \frac{1}{108}$   
 $\frac{1}{420} - \frac{1}{105} = -\frac{1}{140}$   
 $\frac{1}{450} + \frac{1}{125} = \frac{11}{450}$   
 $\frac{1}{480} - \frac{1}{120} = -\frac{1}{120}$   
 $\frac{1}{504} + \frac{1}{144} = \frac{1}{108}$   
 $\frac{1}{540} - \frac{1}{135} = -\frac{1}{270}$   
 $\frac{1}{560} + \frac{1}{140} = \frac{2}{280}$   
 $\frac{1}{594} - \frac{1}{148.5} = -\frac{1}{594}$







□□□□□ - □□□□□     $2 \square \square$     □□□     $3 \square$      $3 \square \square \square$     □□□□□     $3$   
 □□□□□□□□□□□□□□□□□□□□    □□□□□□□□□□    □□□    □□□□□□□□□□     $4$   
 □□□□□□□□    □□□□□□□□     $3 \square \square \square$     -    □□     $3 \square \square \square \square$     □□□□□□□□□□□□□□□□□□□□     $3$   
 □□□□□□    -    □□□□□□     $3 \square \square \square \square$      $3 \square \square$      $3 \square \square \square \square \square$     □□□□□    -    □□□□□□□□     $3 \square \square$      $4 \square \square \square \square$   
 □□□□□□□□□□    □□□□□□□□□□□□□□□□□□□□    □□□□□□□□□□□□□□□□□□□□     $3 \square \square \square \square \square$     : -    □□□□□□□□     $3 \square \square$   
 $4 \square \square \square \square$     □     $3 \square \square$     -    □□□□□□     $3 \square \square \square \square$      $2 \square \square \square \square \square$     :    □□□□□□□□    □□     $3 \square \square$     -    □□□□□□□□  
 □□□□□□□□□□□□□□□□□□□□    -    □□    : □□□□□□□□□□    □□    : -    □□□□□□□□□□□□□□□□□□□□    □□     $3$   
 □□□□□□□□     $2 \square \square \square \square$     □□     $3 \square \square$     □□     $3 \square \square$     -    □□□□□    □□□□□□□□     $3 \square \square \square \square \square \square \square \square$     -    □□□□□□□□  
 $3 \square \square \square \square$     □□     $3 \square \square \square \square$      $4 \square \square \square \square$     □□     $3 \square \square$     -    □□□□□□□□□□□□□□□□    □□□□□    □□□□□□□□□□□□□□□□□□□□     $2 \square \square \square$   
 -    □□□□□□□□□□    -    □□□□□□□□□□□□□□□□□□□□    -    □□□□□□□□□□□□□□□□□□□□    □□□□□    □□□□□  
 □□□□□    :)