

$$\#4 \quad \frac{4}{(u^2+v^2)^2}$$

$$\#8 \quad 1/2v$$

$$\#10 \quad u^2v$$

#14 False

#16 True

$$\#24 \quad 21$$

$$\#26 \quad \pi(1-e^{-4})/2$$

$$\#34 \quad u = -x + \frac{4}{3}y, v = y$$

$$\#36 \quad -1/2$$

$$\#38 \quad 15(e - e^{-1})/4$$