$$3e^{4x^{3}}yx^{2} + e^{4x^{3}}y' + 2x\cos^{2}x^{2} = 3y^{2}y'$$

$$3e^{4x^{3}}yx^{2} + e^{4x^{3}}y' + 2x\cos^{2}x^{2} - (3e^{4x^{3}}yx^{2} + 2x\cos^{2}x^{2}) =$$

$$3y^{2}y' - (3e^{4x^{3}}yx^{2} + 2x\cos^{2}x^{2})$$

$$e^{4x^{3}}x^{3}y' = 3y^{2}y' - 3e^{4x^{3}}yx^{2} - 2x\cos^{2}x^{2} - 3y^{2}y'$$

$$e^{4x^3}y' = 3g^2y' - 3e^{4x^3}yx^2 - 2x\cos x^2 - 3y^2y$$

 $e^{4x^3}y' = -3e^{4x^3}yx^2 - 2x\cos x^2 / e^{4x^3}x^3 - 3g^2$

$$\frac{y'(e^{3x^{3}}x^{3}-3y^{2})}{e^{3x^{3}}x^{3}-3y^{2}}=-\frac{3e^{3x^{3}}yx^{2}}{e^{3x^{3}}x^{3}-3y^{2}}-\frac{2x\cos x^{3}}{e^{3x^{3}}x^{3}-3y^{2}}$$

$$y' = \frac{-3e^{4x^{3}}yx^{2} - 2x \cos x^{2}}{e^{4x^{3}}x^{3} - 3y^{2}} \qquad \frac{dy}{dx} = \frac{-3e^{4x^{3}}yx^{2} - 2x \cos x^{2}}{e^{4x^{3}}x^{3} - 3y^{2}}$$

①.
$$\vec{p} = 2i + k$$
 $\vec{q} = i - 2j + k$ $\vec{r} = -2i + 4j - 3k$.

$$(\vec{q} \times \vec{r}) = |ijk|$$

 $|ijk|$
 $|i-2i|$
 $|-2i-j|$
 $|-24-3|$
 $|-24-3|$
 $|-24-3|$

$$|\vec{p}| \times (\vec{q} \times \vec{r})| = \sqrt{1+\gamma+\gamma} = \sqrt{g} = 3$$