n(+); $v = \frac{d^2x}{dt}$; $a = \frac{d^2x}{dt^2}$ $n = \frac{d^2x}{dt}$ a= dv Det particle moves along 7-anis So that its co-ordinates doeen the Expression (law)

7 (t) = 2t2 + 4 When 2 is in motor et is in seconds. I find particle veloubry

I find particle accelerations 7(+)= 2+ 44 we get liff w.r.to t 20 = de = 4+ + 0 diff agein w.r.to t do = a = 4 m/sec2 xfound ve ent re = 4 miser 3 ed partitle moves along x-amina alevanding to the Egy x(4)=2+3+6+2-6++1 when t > 0 and is measured in error ind the time taken by the particle when v (+) one Equal

①
$$7(H) = -\frac{t^3}{6} + 2t^2 - 1$$

It is in metas $f + is$ in seas found f when $a(H) = 0$.

 $2(1t) = -\frac{t^3}{6} + 2t^2 - 1$

Aith. o. r.t. t .

 $3(1t) = -\frac{1}{6}(3t^2) + 4t - 0$

Aith. o. r.t. t .

 $4(1t) = -\frac{1}{6}(3t^2) + 4t - 0$

Aith. o. r.t. t .

 $4(1t) = -\frac{1}{6}(3t^2) + 4t - 0$

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Aith. o. r.t. t .

 $4(1t) = -\frac{1}{6}(3t^2) + 4t - 0$

Aith. o. r.t. t .

logett) = -1
$$t = e'$$

$$t = e$$

$$t = 2.7138$$

$$t = 0.368 \text{ sed}$$

$$att) = t = -0.368$$

$$att) = 2.7138 \text{ misec}$$

$$att) = 2.7138 \text{ misec}$$

$$att = 2.7138 \text{ mise}$$

$$att = 2.7138 \text{ misec}$$

$$att = 2.7138 \text{ misec}$$

$$att =$$

Probs on integration $0 \int x^{2} dx = \frac{x^{3}}{3}$ $0 \int x^{4} dn = \frac{x^{4+1}}{3} = \frac{x^{3}}{3} = \frac{1}{3x^{3}}$ $\frac{1}{2} + 1 = \frac{x^{2}}{3}$ $0 \int x^{4} dn = \frac{x^{4+1}}{3} = \frac{x^{3}}{3} = \frac{1}{3x^{3}}$ $\frac{1}{2} + 1 = \frac{x^{2}}{3}$ $0 \int x^{4} dn = \frac{x^{4}}{3} = \frac{x^{4}}{3}$ $0 \int x^{4} d$

(3) $(-6\pi^{3}+9\pi^{2}+4\pi-3)d\pi$ (3) $(\frac{8}{7}-\frac{5}{7^{2}}+\frac{6}{73})d\pi$ (3) $((\frac{8}{7}+\frac{1}{3\sqrt{7}})d\pi$ (4) $((\frac{7}{7}+\frac{1}{3\sqrt{7}})d\pi$