$$
\begin{aligned}
& 9-27-13 \\
& 3^{\prime \prime} \mathrm{Trig}
\end{aligned}
$$

SAT questions on Test

$$
2-3-16,17
$$

$$
2-4 \# 20
$$

$$
2-6+9,11
$$

Questions from Ch. 2 PT
(24.) $\frac{4 x-5}{x-6} \quad x \neq 6$
(34) $x(3 x-2)(2 x+1)(5 x-10)=0$
$\downarrow \downarrow \downarrow \downarrow$
$x=0 \quad \begin{aligned} & 3 x-2=0 \\ & \frac{12+12}{3 x}=\frac{2}{3}\end{aligned} \frac{2 x+1=0}{\frac{2 x}{2} \cdot-\frac{1}{2}} \quad \frac{5 x-10=10}{\frac{5 x+10}{5}=\frac{10}{5}}$
$x=0$ or $x=\frac{2}{3}$ or. $x=\frac{-1}{2}$ or $x=2$
(33) $10 x^{2}+27 x-28=0$
$\begin{aligned} & a=10 \\ & b=27\end{aligned} x=\frac{-b \pm \sqrt{b^{2}}}{2 a}$
$\begin{aligned} & c=-28 \quad x=\frac{-27 \pm \sqrt{729+1120}}{20} \\ & 4 a c=-1120\end{aligned}$
$x=\frac{-27 \pm \sqrt{1849}}{20}$
$x=\frac{-27 \pm 43}{20}$
$x=\frac{-27+43}{20}$ or $x=\frac{-27-43}{20}$
$=\frac{16}{20}=\frac{4}{5} \quad x=\frac{-70}{20}$
$x=-3^{1 / 2}$
(35) $x^{3}+3 x^{2}+2 x=0$
$x\left(x^{2}+3 x+2\right)=0$
$x(x+1)(x+2)=0$
$x=0$ or $x=-1$ or $x=-2$
(7)

$$
\begin{aligned}
& \text { (7) } \frac{6 x^{2}+19 x+\frac{8}{c} \text { a } a \cdot \frac{48}{1,48}}{} \begin{array}{l}
2,24 \\
\left(6 x^{2}+3 x\right)+(16 x+8) \\
3 x(2 x+1)+8(2 x+1) \\
(2,16 \\
(2 x+1)(3 x+8) \\
4,12 \\
6,8
\end{array} \\
& \hline
\end{aligned}
$$

9-27-13
$4^{\text {en Tris }}$
Ch. 2 p+ 1
(17)

$$
\begin{aligned}
& \left(10 k^{3}-5 k^{2}\right)+(8 k-4) \\
& 5 k^{2}(2 k-1)+4(2 k-1) \\
& (2 k-1)\left(5 k^{2}+4\right)
\end{aligned}
$$

$$
\begin{aligned}
& \text { (19) }\left(9 x^{3}-3 x^{2}\right)+(3 x-1) \\
& 3 x^{2}(3 x-1)+1(3 x-1) \\
& (3 x-1)\left(3 x^{2}+1\right)
\end{aligned}
$$

$$
\begin{aligned}
& \text { (12) } 27 n^{3}+125 y^{3} \\
& (3 n+5 y)\left(9 n^{2}-15 y+25 y^{2}\right)
\end{aligned}
$$

(12) ${ }^{+2}$

$$
5 n^{2} y+20 n^{3} y^{2}
$$

$$
5 n^{2} y(1+4 n y)
$$

$$
\begin{gathered}
35 x^{3}+3 x^{2}+2 x=0 \\
x\left(x^{2}+3 x+2\right)=0 \\
x(x+2)(x+1)=0 \\
x=0 \quad x+2=0 \quad x+1=0 \\
x=-2 \quad x=-1
\end{gathered}
$$

