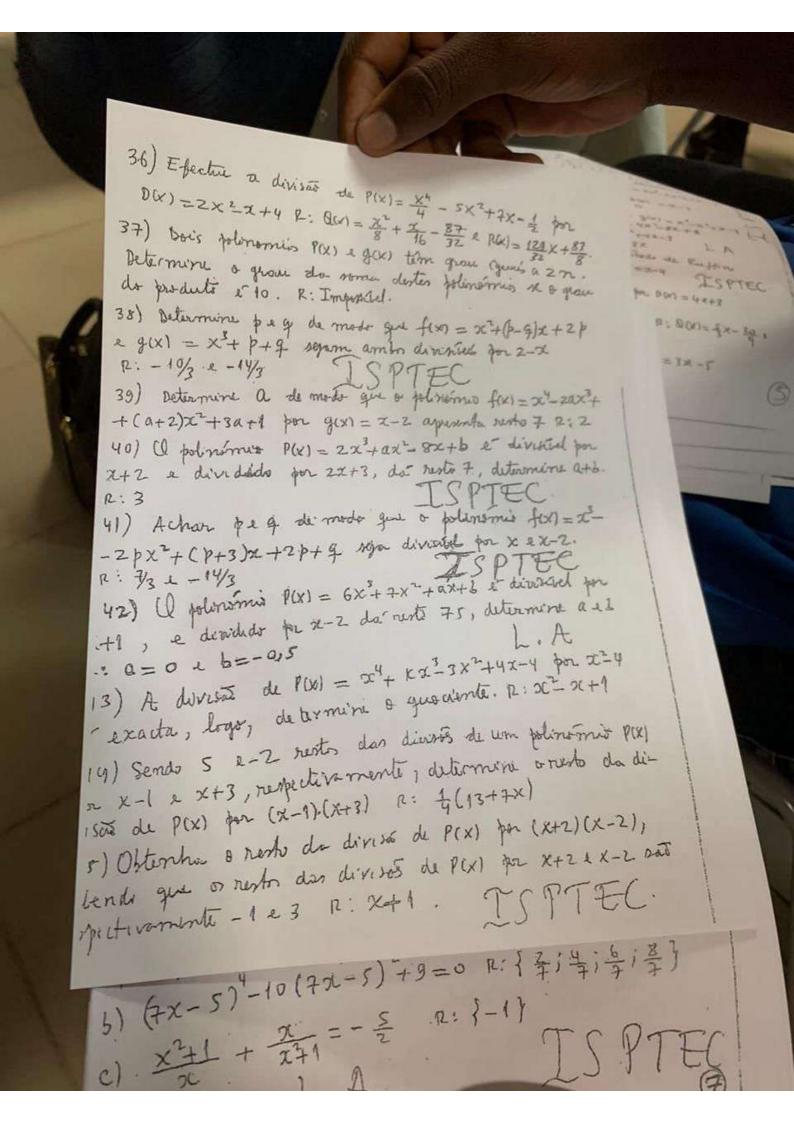
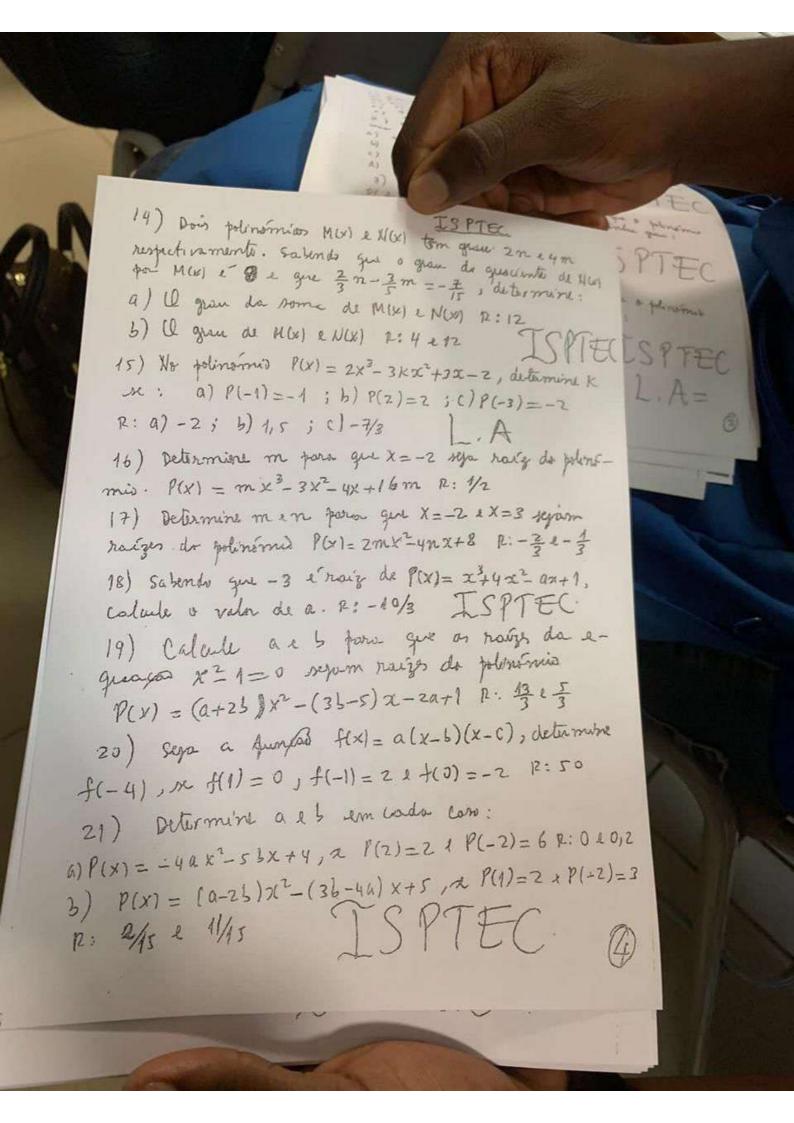


1 V7+413 R: 2+13 ) (V5+2V6 - V5-2V6) 1/2 R= Z 1) 3 + 4 P: 17 + 16 ISPTER ) 3 + 5 R: V7+V5 ) (V3-2)(V3+2)-(V5-2)2(V5+2)2 P:-2 2: 10-1 )  $(\sqrt{7}-3)^2(\sqrt{7}+3)^2-2(\sqrt{7}-1)(\sqrt{7}+1)$  R:-4 ISPTEC  $\frac{2}{1+\sqrt{2}+\sqrt{3}} \quad R: \frac{1}{\sqrt{2}} \left(1+\sqrt{2}-\sqrt{3}\right)$ -23) 1 2h a molaceh 2-100 k+15 200 26>1 12:7  $1 \frac{3+\sqrt{2}+\sqrt{3}}{2} R: -\frac{1}{2}(4+3\sqrt{2})(7+3\sqrt{3})$ 3-12-13 2-12-13 12: 1/2 (2/6+1) (3-4/2) 4 p: (413+49) (113+3) 1 R: (1/5+1/2)(1/5+1/2) 1 7/15 - 1/7

P: 1/8 ( 1/225 + 1/105 + 1/49 )  $\frac{2-\sqrt{3}}{2+\sqrt{3}} - \frac{2+\sqrt{3}}{2-\sqrt{3}} \quad R: -8\sqrt{3}$  $\frac{5-6\sqrt{2}}{5+6\sqrt{2}}-\frac{4-\sqrt{2}}{4+\sqrt{2}}$  72:  $\frac{1}{329}(-1102+608\sqrt{2})$ . ISPTEC = L.A 2+12-





4) Calculor & valor dos requirits expressos. ISPTEC a)  $7\sqrt{3} - 5\sqrt{48} + 2\sqrt{192}$  2: 1/3 5) V5+2V6 V5-2V6 R: 1 = L. A= = = 1 1 1 1 1 1 C)  $\sqrt{8+\sqrt{14+\sqrt[3]{6+\sqrt{4}}}}$  R: 213 1) ( V32 + V43 - V98 ) ( V72 - V500 - VE) R: 6(710-29) a) V2+V3 V2+V2+V3 V2+V2+V3 V2-V2+V2+V3 V2-V2+V2+V3 V2:1 f) 17+443 7:2+13 8) (V5+2V6 + V5-2V6) 1/2 123 ISPTEC L.A 9)  $\frac{2}{1+\sqrt{2}+\sqrt{3}}$   $p:\frac{1}{\sqrt{2}}(1+\sqrt{2}-\sqrt{3})$ i)  $\frac{1}{\sqrt{5}-\sqrt{2}}$   $p:\frac{1}{\sqrt{2}}(1+\sqrt{2}-\sqrt{3})$   $2:\frac{(\sqrt{5}+\sqrt{2})(\sqrt{5}+\sqrt{2})}{3}$ 1) 1 R: 1 ( 725 + 7105 + 1年) r) 3 + 4 年 15 年 16 ISPTEC 1) 3 + 5 1/2 1: 1/7+1/5 m) 4 R: ( \frac{1}{12} + \frac{1}{9}) (\frac{1}{13} + \frac{3}{3})  $\frac{1}{n}$   $\frac{3+\sqrt{2}+\sqrt{3}}{3-\sqrt{2}-\sqrt{3}}$   $p:-\frac{1}{2}(4+3\sqrt{2})(5+3\sqrt{3})$  $\frac{2-\sqrt{2}-\sqrt{3}}{2+\sqrt{2}-\sqrt{3}} \quad 2: \frac{1}{23} \left(2\sqrt{6}+1\right) \left(3-4\sqrt{2}\right)$ ISPTEC = L.A (2). 1. gen & hun. 1: 6 = Jg. A =

